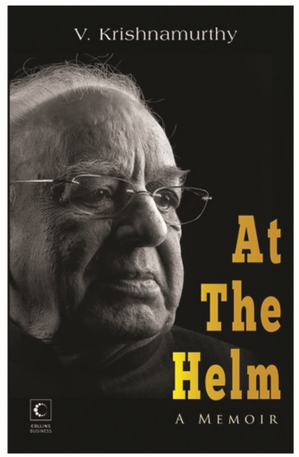

Dr. A.P. J Abdul Kalam thoughts on "At The Helm - A Memoir" by Dr.V. Krishnamurthy, President, National College (Autonomous), Tiruchirappalli.

One of the greatest qualities of a creative leader is; whenever he or she takes over an organisation, they should generate creative leaders out of that organisation rather than bringing them from outside. When I read the book, the message I get from its great author V. Krishnamurthy is: that any huge mission taken by a creative leader will always encounter some problems. But, the creative leader becomes the captain of the problem, defeats the problem and make the mission succeed. This is what my respected friend V. Krishnamurthy has done in all his missions and presented beautifully in his book "At The Helm".

(A.P.J. Abdul Kalam)

16 April 2015
10, Rajaji Marg
New Delhi -110011

www.nct.ac.in

'that alone is knowledge which liberates....'

Since 1919

SELF STUDY REPORT CYCLE - III

National College

Autonomous

College with Potential for Excellence
Nationally Re-Accredited with 'A' Grade by NAAC
Tiruchirapalli - 620 001

Submitted to
NAAC
2016

SELF STUDY REPORT

CYCLE - III

Since 1919

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SELF STUDY REPORT
CYCLE - III

Since 1919

National College
Autonomous

College with Potential for Excellence

Nationally Re-Accredited with 'A' Grade by NAAC

Tiruchirapalli – 620 001

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His excellency

SHRI. R. Venkataraman

Our Outstanding Alumnus

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PRINCIPAL (1921 – 1947)

V. SARANATHAN

A symbol of Service and Sacrifice

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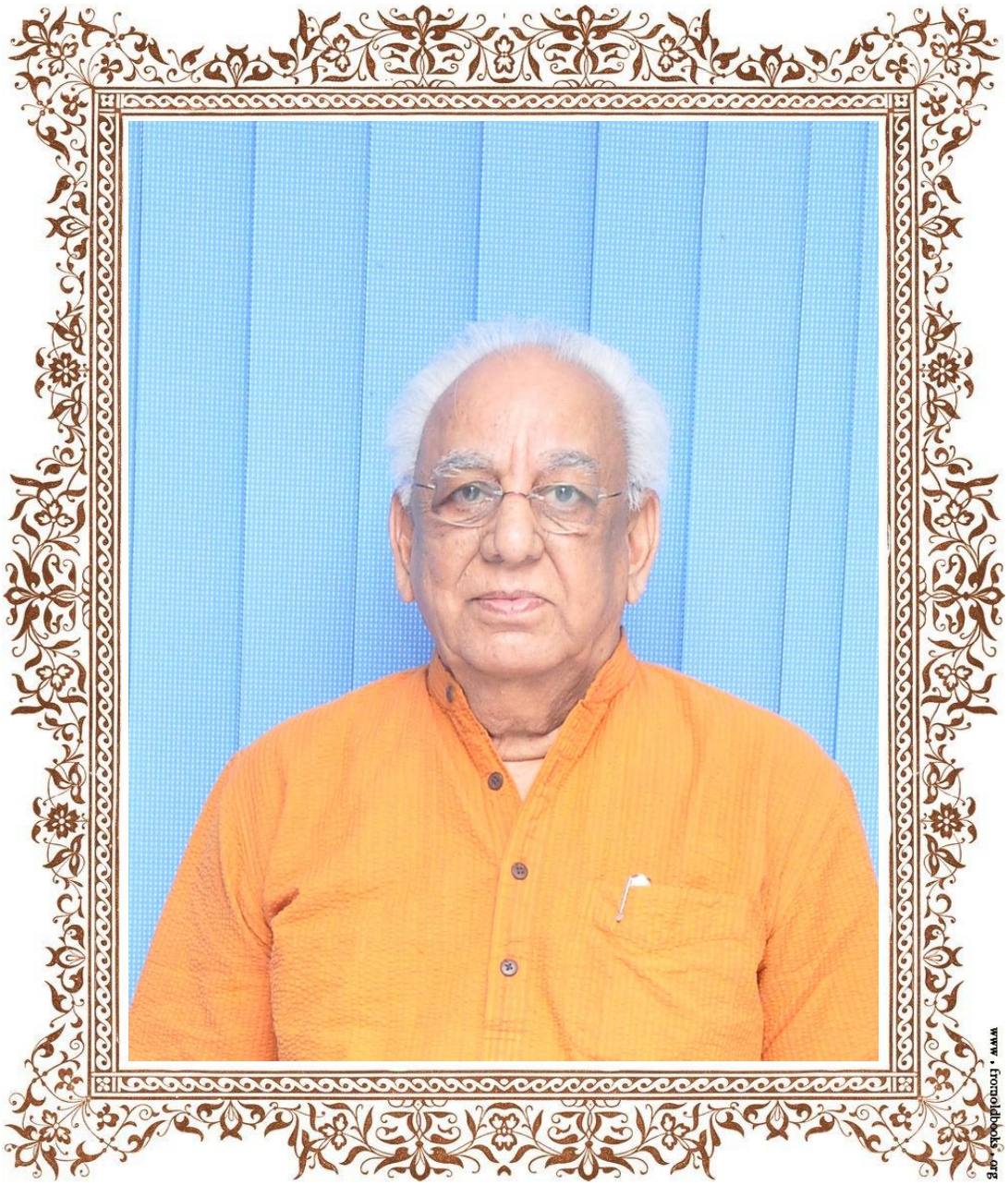

Padma Vibhushan Dr. V. Krishnamurthy

Former Chairman, National Manufacturing Competitiveness Council
Former Chairman & CEO-BHEL, SAIL & Maruti Udyog Ltd.,
Former Chairman, IIM (Ahmedabad, Bangalore, Kolkata)

PRESIDENT, COLLEGE COMMITTEE

Management Guru

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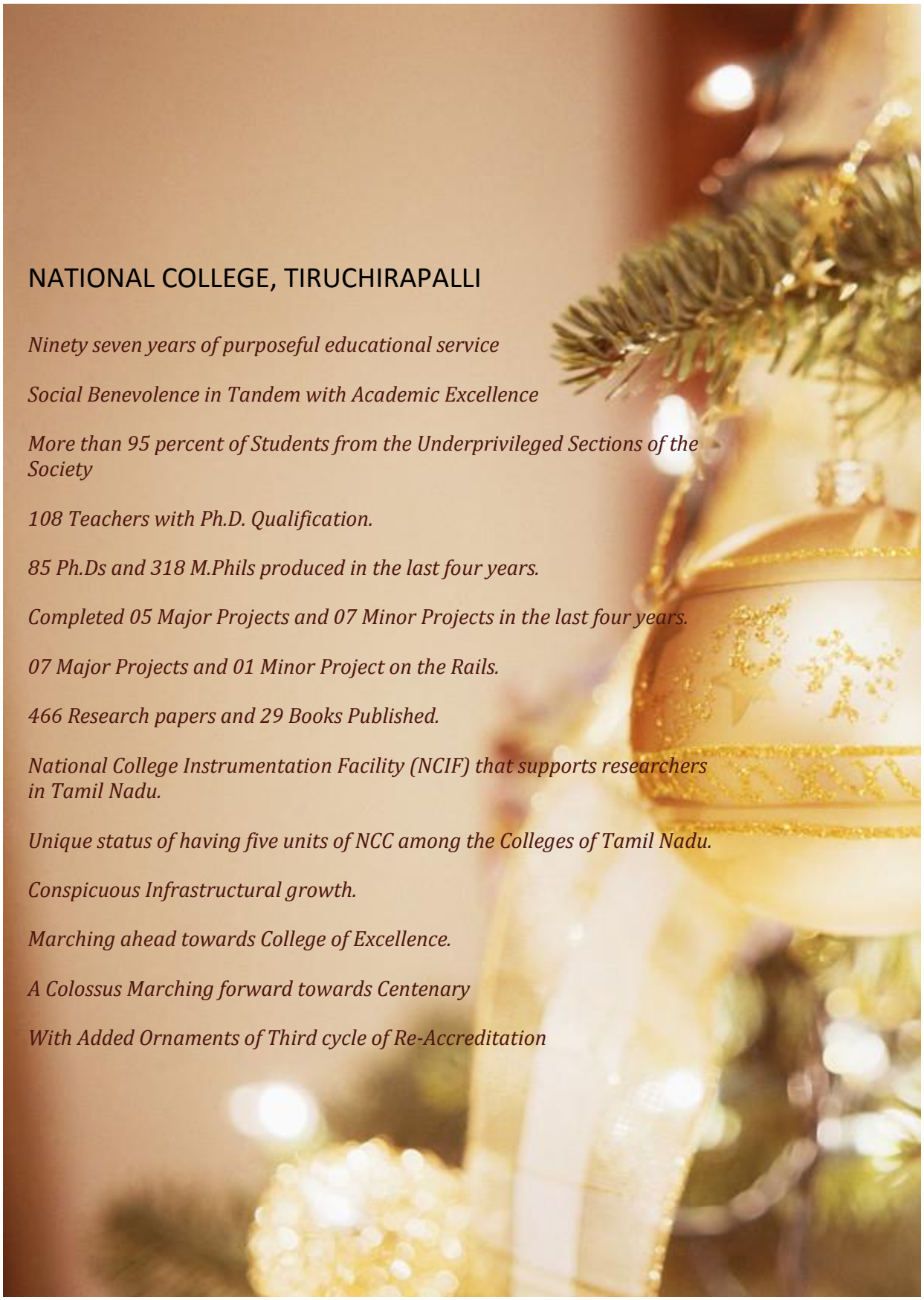

NATIONAL COLLEGE, TIRUCHIRAPALLI

Ninety seven years of purposeful educational service

Social Benevolence in Tandem with Academic Excellence

More than 95 percent of Students from the Underprivileged Sections of the Society

108 Teachers with Ph.D. Qualification.

85 Ph.Ds and 318 M.Phils produced in the last four years.

Completed 05 Major Projects and 07 Minor Projects in the last four years.

07 Major Projects and 01 Minor Project on the Rails.

466 Research papers and 29 Books Published.

National College Instrumentation Facility (NCIF) that supports researchers in Tamil Nadu.

Unique status of having five units of NCC among the Colleges of Tamil Nadu.

Conspicuous Infrastructural growth.

Marching ahead towards College of Excellence.

A Colossus Marching forward towards Centenary

With Added Ornaments of Third cycle of Re-Accreditation

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PREFACE

Change is the essence of life. Any system that resists change can neither register growth nor avoid stagnation. The National College founded in 1919 is a glorious example of meaningful correlation between dynamism of society and dynamism of education. If the motto of the College, "That which liberates is education", implied the role of education in liberating India from Colonial rulers, today liberating the suppressed sections of the society from the evil clutches of communalism, cast-eism and ignorance has become the focal point.

The College acquired the seal of approval from the National Assessment and Accreditation Council (NAAC) and ranked at 'A' Level in 2005. Since then the college marches ahead with an added energy and spirit. The proud march is evidenced in the academic performance, co-curricular and sports activities, development of infrastructure and improvement in research facilities. Now the College is poised for

Third cycle of Re-Accreditation – a kind of self-evaluation to justify the millions of rupees that was pumped into this institution in the last five years.

As soon as the decision to seek Re- Accreditation was taken, a steering committee was constituted with Dr. R. Srinivasan, Associate Professor, Department of Commerce as the Coordinator. The Principal addressed a staff meeting giving the details of Re-Accreditation process to make them involved in the process.

After the planning was over the execution part was entrusted to the various sub committees. The conveners of the subcommittee collected data pertaining to the respective criterion allotted to them from the departments.

In the documentation work, the effective participations of Dr. M.S. Mohamed Jaabir, IQAC Coordinator, Dr. D.E. Benet, Department of English and Dr. R. Srinivasan, Department of Commerce deserve to be mentioned. The Secretary of the College Shri. K. Raghunathan and the Principal Dr. K. Anbarasu make themselves available for consultation and guidance. The report presents a faithful representation of the successful strides of National College in the last four years. The report is presented in two volumes – the Institutional data, Criterion wise and Department wise Evaluative Report in volume - I and all annexures and supporting documents in volume - II.

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Executive Summary

2016

Saa vidyaa yaa vimukthayea… *..that alone is knowledge which liberates..*

National College

founded in the year 1919 is a glorious example of meaningful correlation between dynamism of society and dynamism of education. The motto of this premier institution is ***Saa Vidyaa Yaa Vimukthayea - That alone is knowledge which liberates.*** Conceived and founded to impart and to promote among youths, the loftiest ideals which constitute the essence of Indian Culture and Nationalism, the College has been proudly fulfilling its role as one of the Nation Building Institutions. Sri. R. Venkatraman, the Former President of India; Dr. C. Rengarajan, Former Governor, Reserve Bank of India; and Sri. C.V. Narasimhan, Former Asst. Secretary General, UNO, are a few among the long list of illustrious Alumni of the College. The College is presently managed by a Committee under the presidentship of Padma Vibhushan Dr. V. Krishnamoorthy, a well known manager par excellence and turn-around expert, who as Chairman, brought esteem to the public sector units like SAIL, BHEL and Maruti Udyog Ltd.

Through its dedicated service in the cause of education for 97 long years without any taint of selfishness, National College has built up a tradition of empowerment of the masses through quality education. The college stands out as a shining symbol of service and simplicity. Thousands of students embraced into its fold and provided emotio-

Science Exhibition

Science Exhibition held at the College with hundreds of displays and demonstrations. The grand carnival provided an enthralling experience of education and entertainment to nearly 10,000 school students in the region.

Indoor Stadium

Stunning view of the Indoor Stadium from the Gallery within. The stadium constructed in the post accreditation period is one of the pride possession of the Institution.

nal comfort and academic support are well placed in life.

UGC conferred **Autonomous Status** to the College in 2010 and extended the status till the year 2021-22 recently. UGC also recognized the College as **College with Potential for Excellence** in 2012**.** DST has recognized the College for support under **FIST** scheme and grants have been received.

The College offers 20 UG, 19 PG, 11 M.Phil. and 13 Ph.D. programme in diverse field. With a student strength of 3630 (1605 in aided and 2025 in Un-aided), the College is contributing its might to the cause of higher education of the under privileged. The cause of education is ably served by 207 dedicated Teachers (97 in Aided and 96+14 in Un-aided) and 64 Non-Teaching staff. A large proportion of Ph.D. holders among the staff is the pride of the College. 108 Teachers are Ph.D. degree holders and 70 teachers are actively involved in the research, guiding M.Phil. and Ph.D. scholars, publishing research papers and executing sponsored major and minor projects.

The College has the distinction of excellent research output. During the Post Re-Accreditation period 85 Ph.D. degrees and 318 M.Phil. degree have been awarded to scholars of the College. 05 Major projects and 07 Minor projects have been completed and 07 Major projects and 01 Minor project are ongoing. 466 research papers and 29 books have been published by our staff and scholars during the period. 03 scholars receive Rajiv Gandhi Fellowship, 05 scholars receive JRF and one scholar receives Moulana Azad Fellowship for doing Ph.D.

Graduation Day

Thiru. S. Balasubramanian, Chairman, CUB, presented 378 Degrees to the Graduates in person and mentioned "Whatever be the profession or avocation you end up choosing for yourself. All of you will definitely have to face challenges of varying nature and degree" in the Graduation Day function of the College held on 14-02-2015.

The **FRIP** (Faculty Research Incentive Programme) is a pride of National College. In its active pursuit of excellence in research, the College has conceived the FRIP under which teachers who have published research articles, presented research papers in seminars, guided Ph.D. Scholars for the award of degrees are honoured and rewarded in a special meeting held on the last working day of each semester. The programme also covers faculty members who have published books, organized seminars and work shop and made other significant academic contribution. Year after year, the number of awardees is increasing and it is a gratifying experience for the management.

As many as 49 seminars / workshops / conference / training programmes have been conducted by the College. Of these, 11 were sponsored by UGC, 04 by NTS, 03 by Karur Vysya Bank and the remaining were sponsored by the management.

The Autonomous Status conferred on the College by UGC has facilitated the introduction of a wide range of UG and PG programme and to strengthen the

Curriculum, Teaching learning process, Research and Extension activities. 08 UG, 06 PG, 02 M.Phil. and 03 Ph.D. programmes have been introduced. Among the programmes introduced, 2 are interdisciplinary in nature and 4 are in emerging areas.

The **Tutor Ward System** is another colourful feather in the cap of National College. Under the system, a batch of about 15-20 students of I U.G/P.G is assigned to a professor, designated as tutor. The tutor takes the wards under his wings and mentors them throughout the duration of the course. The tutor also maintains a record of the performance and progress of each student in the form of a counseling record. The continuous personal interest and interaction are of immense help to the rural students to overcome their fear, inhibitions etc. and enhance their personality.

SPECIAL RIFLE TRAINING PROGRAMME

NCC Army Wing organized a Special Rifle Training Programme on 09-07-2011. Training was given with weapons like Light Machine Gun, Medium Machine Gun, Sten Machine Carbine, Mark 3, .303 rifle and.22 rifle. Also students were trained in handling the rifle, dismantling and ssembling the rifle, cleaning the rifle, aiming of the rifle, firing practice etc. Col. Prakash Dharan Commanding Officer 2 (TN) BN headed the Training. He was accompanied by Havildhar Babu and Murugesan during the Training. Cap. Dr. C. Asok Kumar, Company Commander organized the Training Camp.

The results in end semester examinations hover around 90% for PG students and 75% for UG students. Students have recorded 100% pass in many PG programmes. 2436 UG students and 945 PG students have graduated through the College during the period.

A group consisting two or three meritorious students from each class, totaling 150-175 has been formed. Named as **Core Group,** the group is given focused attention and provided with a holistic learning experience.

All the students of Under Graduate programme are involved in one or other co-curricular activity. The College has the unique status of the only College having **5 units of NCC** in Tamil Nadu. NCC cadets and NSS volunteers attend various National/State/Regional level camps which bestow on them leadership and team work skills. 5 cadets have attended Republic day parade after the II-cycle of Accreditation.

A **Blood Donors Directory** is released every year containing names, address, phone number and Blood group of all the students who are admitted to I UG and I PG programme. The directory is distributed to all the hospitals around Tiruchirapalli. The publication receives wide appreciation.

Victorious Queens
Shrimati Indira Gandhi College, Trichy, claims shield at Nacofest 2012.

To promote diverse talents among students, an Inter-Collegiate cultural festival in the name of **NACOFEST** is organized annually in a grand manner. The Department of Computer Science conducts an Inter-Collegiate Competition programme entitled **NACOTECH** among the students of Computer Science to bring out the talents in the IT. Similarly, the Department of Mathematics organizes an Inter-Collegiate Mathematical Competition in the name of **NACOMAT** for the students of Mathematics.

The College has signed the following memorandum of understanding during the last four years.

- MOU with Consortium Clinical Research Pvt. Ltd., Coimbatore to offer a Post Graduate Diploma in Clinical Trial Management and Regulatory Affairs for the students of Pharmaceutical, Paramedical and Life Sciences.
- Memorandum of understanding with International Tamil Language Foundation (ITLF), a non-profit, tax exempt USA foundation to implement the Project SPARC-EDUPAC. As per the terms, our students of UG Physics will be taught lessons prepared by Annenberg Foundation, USA.
- MoU with UTL Technologies, Bangalore to offer B.Sc. Remote Infrastructure Management Programme under the KAUSHAL scheme.
- MoU with Studio Image, Tiruchirappalli to offer B.VOC. Programme in Digital Visual Media.
- MOU with SSB Shrine of Overseas Learning to establish an office in the College campus to help our students desirous of pursuing higher studies abroad

A Common Instrumentation Facility in the name of **National College Instrumentation Facility (NCIF)** has been established with State-of Art Research facilities for the benefit of researchers in our College, as well as the researchers across Universities and Colleges in Tamil Nadu.

In pursuit of its mission of spreading and reinforcing knowledge across a wide spectrum, National College has taken the following initiatives.

The College has a rich tradition of inviting eminent persons in various walks of life to deliver lectures under the endowment scheme. **34 Endowment lecture** programmes were conducted during the last four years.

As a part of popularization of Science, the Department of Geology conducts a one week lecture programme every year jointly with **Tamil Sangam** for the benefit of students and general public.

Under the scheme of **Popular Lecture Series**, the College organizes lectures by experts on topics of public interest for the benefit of students and the general public The programmes are well attended and appreciated by public .

SCIENCE EXHIBITION

The objective of the science exhibition was to arouse interest in the field of science among students. The expo covered a plethora of concepts in different branches of science such as chemistry, physics, mathematics, biology and geology.

A massive **Science Exhibition** held at the College on 7th, 8th and 9th October was a grand success. Hundreds of displays and demonstrations were presented by our enthusiastic and energetic student to explain various scientific concepts and principles. The grand carnival provided an enthralling experience of education and entertainment to nearly 10,000 school students in the region.

Our College Cricket team has won Championship in the **Inter-Collegiate Cricket Tournament** among Colleges affiliated to Bharathidasan University consecutively for four years. It is worth mentioning that seven players representing Bharathidasan University team are our students. The following are the other landmark achievements of our students in National / International competitions.

- Mr. B. Mugesh, B.Sc. Physical Education represented India in Cycling in Asian Cycling Competition held in Delhi In 2013.
- Mr. K. Vishnu Narayanan, II B.Sc. Physical Education, participated as Indian representative in Yoga at BRICS 2015 held in Moscow from 26th Aug to 6th Sep 2015. He also demonstrated Yoga in the presence of the Prime Minister of India, Mr. Narendra Modi and President of Russia Mr. Vladimir Putin
- Mr. R. Mothi Arun, I B.A English, won National Junior Championship in Dec., 2015.
- Ms. A. Chandralekha, I B.A English secured Gold Medal in 100 and 200 meters in the National Athletic Championship held in Patiala, Punjab, during Dec., 2015.
- Ms. M. Iswarya, M.Sc., Mathematics participated in the 5th National level tournament held at Mumbai and won Gold medal in Kung Fu Competition. Altogether she competed in 23 tournaments and bagged 21 Gold medals.

The placement and training cell is handling the challenging task of preparing our students for placement with great enthusiasm. Our efforts have started to pay off and the placement scenario has become brighter in recent years.

NACOMAT & NACOTECH

National college supports the student community beyond the award of degrees. Coaching classes are held for NET/SLET and civil service examinations. As many as 65 candidates who took coaching in our college have passed NET (English).

The College conducts **Academic Audit** of all Departments every year which serves as a SWOT analysis as well. Subject experts with rich experience from other Colleges and universities review the programmes, performance and process of each department and make suggestions. The suggestions are faithfully implemented.

IQAC as an integral part of our management system channelizes all efforts towards attainment of organizational goals. It has been playing a proactive role in developing quality bench marks, developing learner centric processes, collection and use of feedback and documentation. The endeavour of IQAC in building up a quality culture is yielding positive results.

The College publishes an esthetically designed Newsletter each semester and a Magazine every year. The news-letter presents all the important events of the college with attractive photographs and lucid description. The magazine of excellent substance is brought out in an elegant style. As records of events and achievements, these two publications stand out as shining examples of our quest for excellence in everything we do. It is a public relation exercise also.

The registered office of **Ramanuja Mathematical Society,** founded in 1984, a prestigious International Society of eminent mathematicians, with a membership of 1,500 is situated in our College. Under an Outreach programme on Advanced Mathematics for PG students and Research scholars, classes and other programmes are periodically conducted by the society.

Alumni Association of the College has been strengthened in the recent years. It helps in extending financial support by various scholarships, awarding prizes and giving feedback on the functioning of the College. The **Annual Alumni meeting** is held on the 1st Sunday of February every year. Mr. S. Natarajan, Director, Shriram group- an illustrious alumnus of the College donated a bus to the College.

There are 5 Computer laboratories with 350 Computers in the College. All the departments have been provided with Computers, printers and LCD projectors. All the Computers in the College are connected through LAN and provided with campus wide WiFi internet connectivity.

A **Common address system** connecting all the classrooms and laboratories with the Principal's room has been established. It provides a quick and easy means of communication. Principal addresses the students and announces important messages and events through the system.

The College Library has 1,05,865 books and subscribes to 102 journals. All the activities of the library have been computerized using an exclusive library management software. OPAC has also been installed to access the library catalog through internet.

The College administration involves all the HODs and Staff as a part of decentralization of administrative process. Various Committees have been constituted to look after specified activities. Continuous infrastructure development is another focus area of National College. An indoor stadium, an outdoor stadium, a Girls hostel to accommodate 360 students, a new class room block with 80 class rooms and an extension block for library have been constructed.

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Profile of the College

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Self-Study for Autonomous Colleges

1. Profile of the Autonomous College

1	Name and Address of the College					
	Name	:	National College (Autonomous)			
	Address	:	Dindigul Road, Karumandapam, Tiruchirapalli			
	City	:	Tiruchirapalli			
	State	:	Tamil Nadu			
	Pincode	:	620 001			
	Website	:	www.nct.ac.in			
2	For communication					
	Designation	Name	Telephone with STD Code	Mobile	Fax	Email
	Principal	Dr. K. Anbarasu	O : 0431 2482995 R : 0431 2418437	93457 83040	0431 2481997	principal@nct.ac.in
	Vice Principal	There is no Sanctioned post of Vice Principal for the College.				
	Steering Committee Co-ordinator	Dr. R. Srinivasan	O : 0431 2482995 R : 0431 2792848	94437 88273	0431 2481997	rsri@nct.ac.in
3	Status of the Autonomous College by management					
	1. Government	:	---			
	2. Private	:	☑ (Private – Government Aided College)			
	3. Constituent College of the University	:	---			
4	Name of University to which the College is Affiliated	:	Bharathidasan University, Tiruchirapalli, Tamil Nadu.			
5	a. Date of establishment, prior to the grant of 'Autonomy'	:	11th June, 1919			
	b. Date of grant of 'Autonomy' to the College by UGC	:	23.02.2010			

6	Type of Institution			
	a. By Gender	1. For Men	:	---
		2. For Women	:	---
		3. Co-education	:	☑
	b. By Shift	1. Regular	:	---
		2. Day	:	☑
		3. Evening	:	☑
	c. Source of Funding	1. Government	:	☑
		2. Grant-in-aid	:	☑
		3. Self-financing	:	☑
		4. Any other	:	---
7	Is it a recognized minority institution?		:	Yes ☐ No ☑
	If yes specify the minority status (Religious/linguistic/any other) and provide documentary evidence.		:	---

8 a) Details of UGC recognition

Under Section	Date, Month & Year	Remarks (if any)
1. 2(f)	1957	---
2. 12 (B)	1957	---

The Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act is enclosed : **(See Annexure P-1)**

b) Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc**.)**

Under Section/ Clause	Day, month and Year	Validity	Programme/Institution	Remarks
1.	---	---	---	---
2.	---	---	---	---
3.	---	---	---	---
4.	---	---	---	---

9	Has the College been recognized		
	a. By UGC as a 'College with Potential for Excellence' (CPE)?	:	Yes ☑ No ☐
	If yes, date of recognition	:	16/09/2011
	b. For its contributions/performance by any other governmental agency?	:	Yes ☐ No ☑
	If yes, Name of the agency	:	---
	Date of recognition	:	---
10	Location of the campus and area		
	Location	:	Urban
	Campus area in sq. mts. or acres	:	1,12,421 sq.mts. (27.78 acres)
	Built up area in sq. mts.	:	29,665 sq.mts.
11	Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.		
	• Auditorium/seminar complex	:	Yes
	★ Auditorium A/C	:	1 No.
	★ Seminar Hall	:	1 A/C + 3 4 Nos.
	• Sports facilities		
	* Play ground	:	☑
	★ Foot ball / Cricket ground	:	1 No.
	★ Volley Ball Court	:	2 Nos.
	★ Badminton Court	:	4 Nos.
	★ Kho-kho Court	:	1 No.
	★ Kabaddi Court	:	2 Nos.
	★ Basket Ball Court	:	1 No.
	★ 8-Track Lane with viewers Gallery	:	1 No.
	★ Shot put Sector	:	1 No.
	★ Javelin Arena	:	1 No.
	★ High Jump Pit	:	cushion

	★ Long Jump Pit	:	1 No.
	★ Hurdles	:	110 Nos.
	★ Yoga Hall	:	1 No.
	★ Pole Vault	:	1 No.
	★ Music Band Team	:	Yes
	★ Indoor Stadium	:	Yes
	★ Outdoor Stadium	:	Yes
	⁎ Swimming pool	:	Not available
	⁎ Gymnasium	:	☑ (12 Point Multi work Station)
	• Hostel		
	⁎ Boys' Hostel	:	☑
	⁎ Girls' hostel	:	☑
	• Residential facilities	:	Not applicable
	⁎ For teaching staff	:	8 Flat Quarters is available
	⁎ For non-teaching staff	:	Nil
	• Cafeteria	:	☑
	• Health Center -	:	Yes
	o First aid facility	:	Yes
	o Inpatient facility	:	---
	o Outpatient facility	:	---
	o Ambulance facility	:	---
	o Emergency care facility	:	---
	Health centre staff -	:	One
	o Qualified Doctor	:	Full time ☐ Part time ☑
	o Qualified Nurse	:	Full time ☐ Part time ☐
	• Other facilities	:	
	o Bank	:	Indian Bank, Ponnagar, Trichy
	o ATM	:	---
	o Post Office	:	---
	o Book Shops	:	Yes

	• Transport facilities :		
	* For students	:	Yes
	* For staff	:	Yes
	• Power house	:	Yes – Three diesel Generators to the capacity of 200 KV are available.
	• Waste management facility	:	Yes. Every day non-degradable and degradable materials are segregated. The degradable materials are collected in the compost pit. The non-degradable materials are transported to corporation dustbin.

12 Details of programmes offered by the Institution (Give data for current academic year)

S. No	Programme Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned/ approved student intake	No. of students admitted
1	Under-Graduate **(Aided)**	Economics	3 years	HSC (+2)	English	150	105
		English	3 years	HSC (+2)	English	120	98
		History	3 years	HSC (+2)	English	150	55
		Tamil	3 years	HSC (+2)	Tamil	90	76
		Botany	3 years	HSC (+2)	English	72	64
		Chemistry	3 years	HSC (+2)	English	144	132
		Geology	3 years	HSC (+2)	English	130	129
		Mathematics	3 years	HSC (+2)	English	120	118
		Physics	3 years	HSC (+2)	English	144	129
		Zoology	3 years	HSC (+2)	English	72	60
		B.Com	3 years	HSC (+2)	English	300	261
	(Unaided)	Biotechnology	3 years	HSC (+2)	English	120	---
		Computer Science	3 years	HSC (+2)	English	330	249
		English	3 years	HSC (+2)	English	330	130
		Information Technology	3 years	HSC (+2)	English	90	---
		Mathematics	3 years	HSC (+2)	English	330	116
		Physical Education	3 years	HSC (+2)	English	120	88
		Statistics	3 years	HSC (+2)	English	120	---
		B.C.A	3 years	HSC (+2)	English	330	321
		B.Com	3 years	HSC (+2)	English	600	324
		B.Com (C.A)	3 years	HSC (+2)	English	180	179
		B.B.A	3 years	HSC (+2)	English	330	236
		B.Litt.	3 years	HSC (+2)	English	150	---

2	Post-Graduate **(Aided)**	Economics	2 years	B.A Economics	English	50	13
		English	2 years	B.A English	English	40	37
		Tamil	2 years	B.A Tamil	Tamil	50	27
		Applied Geology	2 years	B.Sc. Applied Geology	English	24	23
		Botany	2 years	B.Sc. Botany	English	28	11
		Chemistry	2 years	B.Sc. Chemistry	English	32	32
		Mathematics	2 years	B.Sc. Mathematics	English	50	46
		Physics	2 years	B.Sc. Physics	English	48	43
		M.Com	2 years	B.Com. Commerce	English	40	38
	(Unaided)	Biotechnology	2 years	B.Sc. Biotechnology	English	50	16
		Botany	2 years	B.Sc. Botany	English	40	---
		Chemistry	2 years	B.Sc. Chemistry	English	80	35
		English	2 years	B.A. English	English	80	77
		Human Resource Management	2 years	B.A Human Resource Management	English	70	---
		Computer Science	2 years	B.Sc. Computer Science	English	120	35
		Information Technology	2 years	B.Sc. Information Technology	English	60	---
		Mathematics	2 years	B.Sc. Mathematics	English	60	58
		Microbiology	2 years	B.Sc. Microbiology	English	50	---
		Physics	2 years	B.Sc. Physics	English	50	11
		Zoology	2 years	B.Sc. Zoology	English	40	12
		M.Com	2 years	B.Com. Commerce	English	50	33
		M.Com (FM)	2 years	B.Com Financial Management	English	70	13
		M.S.W	2 years	B.S.W	English	70	---
		M.B.A	2 years	B.B.A	English	120	---
3	Integrated Masters	---	---	---	---	---	---
4	M.Phil.	Botany	1 years	M.Sc. Botany	English	35	17
		Chemistry	1 years	M.Sc. Chemistry	English	59	03
		Commerce	1 years	M.Com Commerce	English	56	10
		Economics	1 years	M.A Economics	English	31	08
		English	1 years	M.A English	English	41	41
		Geology	1 years	M.Sc. Geology	English	43	---
		Mathematics	1 years	M.Sc. Mathematics	English	45	45
		Physics	1 years	M.Sc. Physics	English	55	22

		Tamil	1 years	M.A Tamil	Tamil	58	28
		Biotechnology	1 years	M.Sc. Biotechnology	English	10	02
		Physical Education	1 years	M.Sc. Physical Education	English	05	02
5	Ph.D.	Botany	3 years	PG Degree/M.Phil.	English	---	03
		Chemistry	3 years	PG Degree/M.Phil	English	---	01
		Commerce	3 years	PG Degree/M.Phil	English	---	04
		Economics	3 years	PG Degree/M.Phil	English	---	---
		English	3 years	PG Degree/M.Phil	English	---	10
		Geology	3 years	PG Degree/M.Phil	English	---	---
		Mathematics	3 years	PG Degree/M.Phil	English	---	01
		Physics	3 years	PG Degree/M.Phil	English	---	03
		Tamil	3 years	PG Degree/M.Phil	English	---	02
		Biotechnology	3 years	PG Degree/M.Phil	English	---	03
		Physical Education	3 years	PG Degree/M.Phil	English	---	---
		Zoology	3 years	PG Degree/M.Phil	English	---	---
		Management	3 years	PG Degree/M.Phil	English	---	---
6	Integrated Ph.D.	---	---	---	---	---	---
7	Certificate	Factory Management	6months	HSC (+2)	English	25	20
		Tourism and Travel Management	6months	HSC (+2)	English	20	20
		Biomedical Waste Management	6months	HSC (+2)	English	22	22
8	Diploma	Gemology	1 year	HSC (+2)	English	---	---
		Journalism and Editing	1 year	HSC (+2)	English	25	25
		Welding and Fabrication	1 year	HSC (+2)	English	25	25
		E-commerce and Accounting	1 year	HSC (+2)	English	25	25
		Banking	1 year	HSC (+2)	English	---	---
		Clinical Trial Management and Regulatory Affairs	1 year	HSC (+2)	English	08	08
9	PG Diploma	Bio process Technology	1 year	UG Diploma	English	04	04
10	Any Other	---	---	---	---	---	---

13	Does the institution offer self-financed Programmes?	:	Yes ☑ No ☐
	If yes, how many?	:	30
14	Whether new programmes have been introduced during the last five years?	:	Yes ☑ No ☐
	If yes,	:	Number – 21
	1. B.A., English - Additional Section 2. B.Sc., Biotechnology 3. B.Sc., Computer Science - Additional Section 4. B.Sc., Mathematics - Additional Section 5. B.Sc., Physical Education 6. B.Sc., Statistics 7. B.Com., Computer Application 8. B.Litt. 9. M.A., English - Additional Section 10. M.A. Human Resource Management 11. M.Sc., Biotechnology 12. M.Sc., Botany – Additional Section 13. M.Sc., Microbiology 14. M.Com. Financial Management 15. M.B.A. 16. M.Phil., Biotechnology 17. M.Phil. in Physical Education 18. Ph.D. in Biotechnology 19. Ph.D. in Management 20. Ph.D. Physical Education 21. Ph.D. Zoology		

15	List the Departments (Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students)			
	Particulars		**Number**	**Number of students**
	Science	Under Graduate	08	1409
		Post Graduate	08	315
		Research centre(s)	09	26
	Arts	Under Graduate	05	702
		Post Graduate	03	155
		Research centre(s)	04	28
	Commerce	Under Graduate	01	759
		Post Graduate	01	85
		Research centre(s)	01	07
	Any Other	Under Graduate	---	---
		Post Graduate	---	---
		Research centre(s)	---	---
16	Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details.	:	No	
17	Number of Programmes offered under			
	a. annual system	:	---	
	b. semester system	:	38	
	c. trimester system	:	---	
18	Number of Programmes with			
	a. Choice Based Credit System	:	38	
	b. Inter/Multidisciplinary Approach	:	02	
	c. Any other (specify)	:	---	
19	Unit Cost of Education			
	a) Including the salary component	:	Rs. 1,03,530 /-	
	b) Excluding the salary component	:	Rs. 6,968 /-	

20	Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education? If yes,	:	Yes ☐ No ☑
	a) How many years of standing does the department have?	:	---
	b) NCTE recognition details	:	---
	Notification No.	:	---
	Date	:	---
	c) Is the department opting for assessment and accreditation separately?	:	Yes ☐ No ☑
21	Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education? If yes,	:	Yes ☑ No ☐
	a) How many years of standing does the department have?	:	4 years
	b) NCTE recognition details	:	The College offers B.Sc. in Physical Education which needs no affiliation from NCTE. The programme is affiliated to Bharathidasan University, Tiruchirapalli, Tamil Nadu
	Notification No.	:	10389/D5/2012
	Date	:	23/07/2012
	c) Is the department opting for assessment and accreditation separately?	:	Yes ☐ No ☑
22	Whether the College is offering Professional programme?	:	Yes ☐ No ☑
	If yes, Please enclose approval / recognition details issued by the statutory body governing the programme	:	---
23	Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.	:	Yes. The College is reviewed by Bharathidasan University through Triennial Commission.

24	Number of teaching and non-teaching positions in the College										
	Positions	**Teaching Faculty**						**Non-teaching staff**		**Technical staff**	
		Professor		Associate Professor		Assistant Professor					
		M	F	M	F	M	F	M	F	M	F
	Sanctioned by the UGC/University/State Government	---	---	35	06	68	28	47	19	01	---
	Recruited	---	---	35	06	49	07	20	08	01	---
	Yet to recruit	---	---	---	---	19	21	27	11	---	---
	Sanctioned by the Management/society or other authorized bodies	---	---	03	---	49	58	12	18	05	---
	Recruited	---	---	03	---	49	58	12	18	05	---
	Yet to recruit	---	---	---	---	---	---	---	---	---	---

25	Qualifications of the teaching staff							
	Highest qualification	Professor		Associate Professor		Assistant Professor		Total
		Male	Female	Male	Female	Male	Female	
	Permanent teachers							
	D.Sc./D.Litt.	-	-	-	-	-	-	-
	Ph.D.	-	-	55	5	32	12	104
	M.Phil.	-	-	07	01	36	45	89
	PG	-	-	-	-	-	-	-
	Temporary teachers							
	Ph.D.	-	-	3	-	03	03	06
	M.Phil.	-	-	-	-	03	05	08
	PG	-	-	-	-	-	-	-
	Part-time teachers							
	Ph.D.	-	-	-	-	-	-	-
	M.Phil.	-	-	-	-	-	-	-
	PG	-	-	-	-	-	-	-

26	Number of Visiting Faculty / Guest Faculty engaged by the College.	:	Visiting Faculty - 04 Guest Faculty - 05
27	Students enrolled in the College during the current academic year, with the following details.		

Students	UG		PG		Integrated Masters		M.Phil.		Ph.D.		Integrated Ph.D.		D.Litt./ D.Sc.		Certificate		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the state where the College is located	2106	762	313	237	-	-	102	63	12	12	-	-	-	-	-	-	-	-	-	-
From other states of India	11	01	04	-	-	-	01	03	02	01	-	-	-	-	-	-	-	-	-	-
NRI students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Foreign students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

28	Dropout rate in UG and PG	:	UG – 0.5 % PG – 0.2 %
29	Number of working days during the last academic year.	:	180 Days
30	Number of teaching days during the last academic year.	:	180 Days
31	Is the College registered as a study centre for offering distance education programmes for any University? If yes, provide the	:	Yes ☐ No ☑
	a) Name of the University	:	---
	b) Is it recognized by the Distance Education Council?	:	Yes ☐ No ☑
	c) Indicate the number of programmes offered	:	---

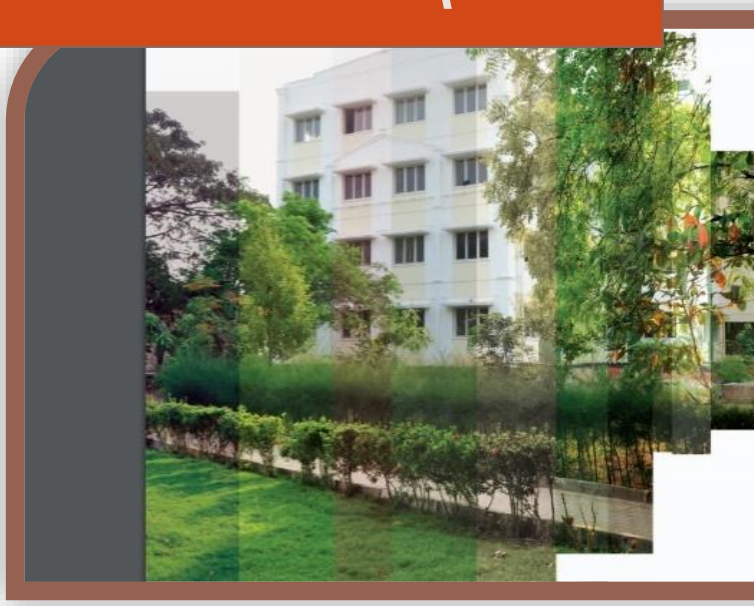
32	Provide Teacher-student ratio for each of the programme/course offered			
	Department	**Staff**	**Student**	**Ratio**
	Biotechnology	07	16	1:2.28
	Botany	08	74	1:9.25
	Business Administration	07	241	1:34.42
	Chemistry	17	198	1:12
	Commerce	26	844	1:32.46
	Computer Science	21	604	1:29
	Economics	09	121	1:13.44
	English	25	347	1:14
	Geology	09	150	1:17
	History	03	55	1:18.33
	Mathematics	17	383	1:23
	Physical Education	04	92	1:23
	Physics	19	180	1:9.47
	Tamil	22	129	1:6
	Zoology	08	72	1:9

33	Is the College applying for?			
	Accreditation	Cycle 1	:	---
		Cycle 2	:	---
		Cycle 3	:	☑
		Cycle 4	:	---
	Re-Assessment		:	---

34	Date of accreditation			
	Cycle 1	28/02/2005	Accreditation outcome/Results	'A' Grade
	Cycle 2	16/09/2011	Accreditation outcome/Results	'A' Grade
	Cycle 3			
	*Kindly enclose copy of accreditation certificate(s) and peer team report(s) **(See Annexure P-2)**			

35	a. Date of establishment of Internal Quality Assurance Cell (IQAC)	:	13/09/2005
	b. Dates of submission of Annual Quality Assurance Reports (AQARs)	:	AQAR for year 2011-2012 on 20/10/2012 AQAR for year 2012-2013 on 02/10/2013 AQAR for year 2013-2014 on 03/11/2014 AQAR for year 2014-2015 on 09/12/2015
36	Any other relevant data, the College would like to include.	:	---

Criteria-wise Report



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Cr. I – Curricular Aspects

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C. Criteria-Wise Inputs

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 How are the institutional vision / mission reflected in the academic programmes of the College?

The Crest and the Motto

The Crest, the Motto as well as a Verse from the Tamil classic *Thirukkural*, indicate what the College represents and what it stands for. The quotation from *Thirukkural*reads thus:

வெள்ளத் தனையமலர்நீட்டம் மாந்தர்தம்
உள்ளத் தனைய(து) உயர்வு. - திருக்குறள்

From deep pools rise the long-stalked flowers,
So rise from the depth of soul men's powers.

As the level of flowers is determined by the water level, heights men attain are determined by the level of their minds. The essence of education is therefore the cultivation of the mind.

The Motto ***Saa Vidyaa Yaa Vimukthayea*** **- That alone is knowledge which liberates -** beautifully conveys the concept of education in a simple but highly powerful form. It implies liberation from ignorance, weakness and every other malaise which eclipses the radiance of knowledge and to facilitate the blossoming of our boys and girls in full shine and splendor.

The Crest shows the rising sun facilitating the Lotus to bloom in its full grandeur. It cogently highlights the basic mission of National College to enable its students to attain excellence in education.

All the three, conceived nearly a century ago by our great founders, driven by the spirit of nationalistic zeal brilliantly portray the philosophy of the great institution - the cherished dream of our master minds-to cultivate the mind of our youth to reach high levels of sophistication.

Vision

To offer quality Higher Education to the younger generations, especially from rural India, who are economically and socially backward, to liberate themselves from prejudice, oppression and ignorance and to gain knowledge for their bright future.

Mission

- To ignite the young minds with lofty ideals and inspire them to achieve excellence in the chosen field.
- To facilitate individual growth of students, with accent on character building, through co-curricular and extra-curricular activities.
- To encourage the students to take-up research and help them reach global standards.
- To provide a congenial atmosphere to study and learn, with infrastructural facilities of highest order.
- To instill in the minds of the students the sense of Nationalism and to train them in social awareness.

To fulfill these missions, the College offers UG and PG programmes in conventional subjects in order to facilitate the rural students to join the programme without any inhibitions.

1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)

- Since the College is an autonomous institution, the curriculum for every programme is developed by the respective board of studies which are constituted as per the guidelines of UGC.
- The syllabi of all the programmes are revised and updated once in three years. However, when revision and updating are deemed necessary or exigent, they are allowed in the middle as well. Syllabus for Computer Science is revised every year, to enable help the students to keep abreast of latest developments in the field.
- An expert from the industry is nominated to every board of studies to offer quality suggestions / recommendations based on real-time assessment of the demands of industry and market.

1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

- Experts from Research Institutions are included in the board of studies. Postgraduate students, intermediate and advanced level research scholars are encouraged to visit such research institutions for their project work and furtherance of knowledge.

- The inputs given by the industry experts are given serious consideration and faithfully incorporated in the curriculum. Moreover, industrial visits are encouraged to gain firsthand knowledge of the demands of the industry. Students who undergo such programmes have better chances in getting employment in the industries whose suggestions are incorporated in the syllabi.
- There is a University representative in each board of studies. Staff members have close interaction with the University departments and utilize their expertise for effective curriculum delivery.
- Subject experts from other institutions and research organizations have also been included in all the boards of studies. Their suggestions on the relevance of curriculum to the demands of industry are taken into consideration during every revision of the syllabi. For example, some of the premier research institutions attached to some ofthe hospitals help develop the curriculum of subjects like Biotechnology.
- The list of Industrial experts, subject experts from Universities and other institutions is given in **(Annexure1.1)**

1.1.4 How are the following aspects ensured through curriculum design and development?

- **Employability**
  - In all the undergraduate programmes three Skill Based courses on Computer Application have been included in order to make the students familiar with basic Computer Application. The courses are 1.Office Automation 2. Desktop Publishing 3. Office Automation and Desktop Publishing Lab.
  - Skill development in the core areas has also been included in the curriculum of all the programmes. The students of Geology are trained on surveying, soil and water testing, the students of Chemistry on Synthesis of Compounds for Pharmaceutical Industries, the students of Physics on functioning of Home Appliances, the students of Biological Science on Fermentation Technique, Mushroom Culture, Vermiculture and Tissue Culture, the students of Commerce on Share market operations and so on.
  - Add on Certificate and Diploma programmes are offered for the students of all the undergraduate programmes. The Add on courses offered in the College are given in **Annexure1.2.**

- **Innovation**
  - Post Graduate Diploma in Clinical Trial Management programme is offered in collaboration with Clinical Consortia Private Limited. The students of the programme undergo in-house training in various hospitals along with the employees of the collaborating organization.
- **Research**
  - In all the PG programmes, doing individual projects helps studentsdevelop interest in research and shapes them as researchers to pursue research in their career.
  - Many M.Phil. programmes are offered in the college in order to provide the students a transition programme leading to Ph.D.
  - PG students are allowed to do their project work in industries and research organizations to facilitate them develop interest in research.

1.1.5 How does College ensure that the curriculum developed address the needs of the society and have relevance to the regional / national developmental needs?

- B.A and M.A. English programmes are offered to meet the shortage of English Language teachers in schools and colleges. Most of the students who undergo the programmes become teachers in the schools around the region.
- B.Sc. and M.Sc. Geology programmes are offered in order to cater to the needs of mineral based industries and national organizations like GSI, ONGC, AMD and so on.
- Curriculum of Chemistry has been designed to support the chemical industry in the regional and national level.
- Curricula of Botany, Zoology and Biotechnology have been designed to make the students to support the farming communities and cattle breeders of the region. Many students go for high end research in these fields.
- Commerce and Economic curricula aim at making the students to support banking and financial institutions.
- Commerce curriculum focuses on practical accounting, banking as well as share market operations.
- Economics curriculum provides specialization in banking, foreign exchange and money market operations.

1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?

- Guidelines of UGC and Bharathidasan University are followed in the curriculum development.
- The needs of the students and the society around the region are also taken into consideration in the framing of curriculum.
- The introduction of two courses on Communicative English has received wide appreciation and the system has become a model for the neighbouring Colleges to emulate.
- Two courses on Communicative English specifically designed to cater to the needs of students who have studied in Tamil medium upto 12thStandard have been introduced. Presented in a simple modular form, the courses have helped to overcome the diffidence and inhibitions of the first generation learners. They provide a smooth transition to higher learning. The courses have received wide appreciation and the system has become a model for the neighbouring Colleges to emulate.

1.2 Academic Flexibility

1.2.1 Give details on the following provisions with reference to academic flexibility

a. Core / Elective options

The main focus of the curriculum of the college is to make the students employable, independent entrepreneurs and potential researchers. The courses are designed after making a thorough assessment of student needs. Every programme is an optimal blend of language courses, core courses, allied courses, elective courses and non–major electives.

UG Programme

- The College offers Core courses in the faculty of Arts, Commerce and Science. 16 Core courses are offered in every under-graduate programme.
- Minimum of five Elective courses are also offered in UG programmes. Every student has to choose two out of five.
- UG students have also to study two non-major courses offered by other departments.

PG Programme

- There are 16 Core courses for each of the PG programmes. Students of PG programme also study 3 Elective courses in the core area.

b. Enrichment courses

- With a view to make the students computer savvy and improve their potential for employability, three computer skill-based courses are offered to all the Under Graduate students except the students of Computer Science/Application programme.
- In order to improve the communication skills in English and the confidence level of students, two communicative English courses are offered to all under graduate students.
- A course on Soft skills is offered to improve the interpersonal skills, social skills, leadership skills, team spirit etc. and make them face the challenges of life with ease and confidence.

c. Courses offered in modular form

- Non-major elective, Communicative English and soft-skill courses are offered in modular form in all the under-graduate programmes.

d. Credit transfer and accumulation facility

- Transfer of credit from other colleges and Universities are permitted to the students who join in the middle of any under-graduate and post-graduate programme.
- Additional credits are given to self- learning courses.

e. Lateral and vertical mobility within and across programmes and courses

- Students of Under-graduate programme can choose any language and non-major elective courses offered by various departments of the college.
- Students of UG and PG programmes are permitted to choose any core based elective courses offered by the parent department.

1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.

No. We are taking steps to design courses exclusively targeting international Students.

1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.

Many students do Dual degree programme offered by Bharathidasan University, Tiruchirapalli. Bharathidasan University offers a few programmes like B.A., English, M.A., English, B.Com., M.Com., M.B.A., M.C.A., for the students of affiliated and Autonomous Colleges which can be pursued simultaneously during their Under Graduate and Post Graduate study.

The College also offers a few Certificate and Diploma programme as Add on programmes **(Annexure1.2)** Students are allowed to enroll in these programmes during their study in the College.

1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

Yes. The list of self-financed programmes offered in the College is given below.

- **Under Graduate**
  - B.A. English,
  - B.Sc. Biotechnology
  - B.Sc. Computer Science
  - B.Sc. Information Technology
  - B.Sc. Mathematics
  - B.Sc. Statistics
  - B.Sc. Physical Education
  - B.Com
  - B.Com, Computer Application
  - B.B.A
  - B.C.A
  - B.Litt.
- **Post Graduate**
  - M.A. English
  - M.A. Human Resource Management
  - M.Sc. Biotechnology
  - M.Sc. Botany
  - M.Sc. Chemistry
  - M.Sc. Computer Science
  - M.Sc. Information Technology
  - M.Sc. Mathematics
  - M.Sc. Microbiology
  - M.Sc. Physics
  - M.Sc. Zoology
  - M.Com
  - M.Com. Financial Management
  - M.S.W
  - M.B.A

- The admission for both aided and unaided programme is carried out by a common method following the guidelines of Bharathidasan University and the Director of Collegiate Education, Chennai.
- The Fee structure for aided and unaided programme differs. The details are given in the **Annexure1.3.**
- The qualification of teachers of Un-aided programme is on par with the aided programme as per the guidelines of UGC.

- Salary for the teachers of aided programme is paid by the Govt. of Tamil Nadu as per the UGC regulation 2010. The salary for the staff of self-financed programmes is determined by the management taking into consideration the qualification, experience, teaching ability and financial position of the College.

1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?

- The College offers all the UG and PG programmes under CBCS.
- Under CBCS, students have the option of studying Language courses, Allied courses and Core based elective courses, Non-major elective courses are left to their choice. The Core courses are generally prescribed by the respective board of studies.

1.2.6 What percentage of programmes offered by the College follows:

- **Annual system**

  No programme is offered under annual system.

- **Semester system**

  All programmes are offered under semester system.

- **Trimester system**

  No programme is offered under Trimester system.

1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?

- The Department of Computer Science and Commerce offer jointly B.Com. (CA) programme.
- Extra-disciplinary courses are offered to facilitate the students to have the knowledge of other branches. The list of Extra-disciplinary courses offered in the College is given in **Annexure1.4.**

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

- Curricula of all the UG, PG, M.Phil. and Diploma programmes are revised once in three years. The syllabi of Computer Science are revised every year.
- Boards of studies design the curriculum with due emphasis on employability skills. The nomination of subject experts, trade and industry representatives in the Boards of Studies, Academic Council and Internal Quality Assurance cell has helped to frame the syllabi of various programmes in tune with the requirements of diverse employment markets.
- All the under-graduate students have to study three courses on Computer Application with two theory courses and a practical course.
- Two courses on communicative English are offered to all the UG students in order to improve their communication skill in English.
- A Course on soft skills designed to improve the interpersonal skills, leadership skills and communication skills has helped to increase the confidence level of students in facing the interviews and challenges of the job environment.

1.3.2 How many new programmes have been introduced UG and PG level during the last four years? Mention details.

The following programmes have been introduced during the last four years.

- B.Sc. Biotechnology
- B.Sc. Computer Science Additional Section
- B.Sc. Statistics
- B.Litt.
- B.Sc. Physical Education
- B.A. English
- M.Sc. Botany Additional Section
- M.A. English Additional Section
- M.A. Human Resource
- M.B.A.

- **Inter-disciplinary**
  - B.Com.with Computer Application
  - B.Com. with Financial Management
- **Programmes in emerging areas**
  - M.Sc. Microbiology
  - M.Sc. Biotechnology
  - Post Graduate Diploma in Clinical Trial Management and Regulatory Affairs
  - Post Graduate Diploma in Bioprocess Technology

1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

- The syllabi of all the programmes are designed to make the students knowledgeable in the respective area of study and employable. Subject experts, researchers and industrial representatives have been included in the board of studies for this purpose.
- The syllabi of allthe programmes are revised keeping in mind the provision for skill development in the respective field of study.
- 10-20 % of courses have undergone changes.

1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?

- A course on Value Education is offered to all the UG students as a part of the curriculum.
- A course on Gender studies is offered to all the UG students.
- World Community service center, a registered society, conducts certificate and Diploma programmes on Yoga and meditation giving the details of communal harmony and world peace. A short-term course on *Manavalakalai Payirchi* Programme is conducted every year.

1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

- As per the NSDC guidelines the college has introduced a Certificate, Diploma and

Advanced Diploma programme on Welding and Fabrication in order to meet the shortage of skilled welders for the fabrication industry located around Tiruchirapalli. UGC has approved and sponsored these programmes under Community College Scheme.

- College has submitted proposal to UGC under KAUSHAL scheme for starting programmes on Remote infrastructure management and Photography, Videography and Editing.

1.4 Feedback System

1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes. The feedback from students and other stakeholders is collected on curriculum. The feedback received is made use of by the teachers who serve as Chairman and members of board of studies to make qualitative and quantitative improvement in the content of the syllabi.

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.

No.

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.

- On the basis of feedback from campus recruiters, programmes for improvement of communication skills of students have been launched.
- A course on personality development was introduced in B.Com based on the feedback of alumni of the department After the first batch, the course was shifted to the I year from the third year as the students opined that it would be more beneficial, if taught in the first year itself.
- Mr. S. Balasubramanian, Chairman, City Union Bank and a member of the Academic council suggested the introduction of a course on soft skills as he found many of the graduates wanting in these skills. The Course had been introduced.

- Alumni often give suggestions for changes in the curriculum based on the experience in industries and organizations. The content of the syllabus is modified as per their suggestions.
- Staff members also collect details about the syllabi offered in other institutions when they visit them for attending Seminar/workshop or for examination related work. They give suggestions and useful inputs for curriculum enrichment based on their observation.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?

- The best indicator for enrichment in any programme is the level of knowledge, the outgoing student exhibit during the final semester of the programme.
- The enrichment in the quality is often evaluated by the number of placements of the outgoing students through campus/off campus recruitment programmes conducted by leading industries.
- Number of students who clear NET, GATE and other competitive exams is another way of evaluating quality enrichment.
- Number of students who manage to find employment or become entrepreneurs is also the measure of quality enrichment.

Additional information regarding Curricular Aspects, which the institution would like to include.

- Three Skill based courses on Computer Application facilitate the students to have the basic knowledge of Computer Application and help them to get part time employment during the course of study.
- Two additional Communicative English Courses in the UG programme help the rural students attain proficiency in spoken English and also a working knowledge in English.
- Oral Examination is part of the all Science practical courses, Communicative English Courses and PG projects.

Cr. II - Teaching, Learning & Evaluation

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CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

Publicity

a) The College provides a copy of the prospectus to all the candidates along withan application form for admission to any degree programme in the College. The prospectus provides details of programmes offered, fees structure, reservation for various categories etc.**(Annexure 2.1)**

b) The College has a dynamic website. The web address is www.nct.ac.in. The website provides updated admission details, on a daily basis during the admission period.

c) The College issues advertisements in National and Regional dailies giving the details of all the Programmes offered in the College, Course Fee, Application Fee etc. a week before the release of results of Higher Secondary Examination. Advertisements are released one time in national dailies and at least three times in regional dailies. The College also advertises through local cable television channels for a month during the period of admission.

d) During the last week of December, a group of teaching staff drawn from various departments visits the Higher Secondary Schools in the neighbourhood and appraises the Head Master and teachers about the programmmes offered by the College. The group requests them to inform the higher secondary students about the achievements of the college and the benefits of joining the college.

e) The College conducts training / orientation programmes for school teachers on various topics every year. In these meetings, the school teachers are briefed about the courses and activities of the College. They are requested to pass on the details to the students and encourage them to join the College. The College maintains a close rapport with the Chief Educational Officer of our District. Head Masters and teachers of Government schools are contacted through him for enhancing students' admission.

Transparency in the admission process

With regard to admission to UG/PG and M.Phil. Programmes, rank lists containing names of selected students and their percentage of marks are displayed on the notice board. The waiting lists of applicants are also displayed on the College notice board. For UG, PG, M.Phil. and Ph.D. Programmes all the details of the admission are submitted to the University / Director of Collegiate Education immediately after the admissions are over.

2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common test conducted by state agencies and national agencies (v) others followed by the College?

The criteria adopted and process of admission is explained below:

i) UG – PG Programmes

Admissions for UG & PG Programmes are made in accordance with guidelines issued by the Director of Collegiate Education (**Annexure2.2**) for the academic year and the reservation policy of Government of Tamil Nadu. Guidelines of Bharathidasan University (**Annexure2.3**) with regard to the minimum qualification and student strength are adhered to.

A Committee consisting of two senior most teachers and one senior teacher from SC/ST Community assists the Principal in making admissions to UG & PG Programmes.

With regard to UG admission, a rank list is prepared based on the marks obtained in the Higher Secondary examinations, community, nativity, extracurricular activities etc and forwarded to the College Admission Committee. Selection lists are released progressively and put up on the College notice board with the simultaneous dispatch of interview cards by post to the selected candidates. The Principal along with the admission committee interviews the candidate and makes admissions. Physically Challenged persons, Sportspersons, Wards of defence personnel and Srilankan repatriates are given due consideration as per the regulations of Government of Tamil Nadu.

With regard to PG Admission, each department constitutes its own committee (The HOD and one staff member) that scrutinizes the applications received for admission. Based on the marks in the qualifying examination, community, nativity, extra- curricular activities etc a rank list is prepared and forwarded to the College Admission Committee. Selection lists are released progressively and put up on the notice board with the simultaneous dispatch of interview cards by post to the selected candidates. The Principal along with the admission committee and HOD of the Department interviews the candidate and makes admissions. Physically Challenged persons, Sportspersons, Wards of defence personnel and Srilankan repatriates are given due consideration as per the regulations of Government of Tamil Nadu.

ii) M.Phil. Programmes

Candidates who have secured more than 50% or 5.51 CGPA and above (in the 10 grade point average scale) in PG Degree are eligible for admission into M.Phil Programmes.

Candidates get the applications from Bharathidasan University, Tiruchirapalli. The University issues applications in duplicateand the candidates submit filled in applications to the College with a copy to the University. An entrance test is conducted for all the applicants. Candidates have to answer objective type questions for 75 marks and appear for a viva-voce examination for 25 marks. The marks in the written test and viva-voce are added to the marks obtained in the PG degree examinations. Then, the rank list based on the total marks is prepared. Selection lists are put up on the notice board with the simultaneous dispatch of interview cards to the selected candidates by post. The Principal along with the HOD of the Department interviews the candidates and makes admissions. Physically Challenged persons, Sportspersons, Wards of defence personnel and Srilankan repatriates are given due consideration as per the regulations of Government of Tamil Nadu.

iii) Ph.D. Programmes

The Candidates who have qualified for Master Degree with not less than 50% of marks or 5.51 and above in the 10.00 grade point average scale under CBCS are eligible to register for Ph.D. Programmes. Candidates seeking admission to Ph.D. Programme obtain the prescribed preliminary application form from the university or by downloading the application from the university website and submit it to the college. The Principal forwards the application to the Chairman of the respective Department Research Committee. The Departmental Research Committee conducts a written test and viva-voce for the candidate and recommends to the university through the Principal of the College indicating the suitability of the candidate for preliminary admission to the Ph.D. Programme. Based on the recommendation of the departmental research committee, the Registrar accords permission for preliminary registration of the candidate to the Ph.D. Programme. Then,the research proposal of the student is circulated among the teachers for selecting the research guide. Students are free to indicate their own choice of a research guide in their applications. The research committee of each department has to certify that the selected topic is not a repetition of the earlier research work. The Departmental research committee shall recommend names for constituting the Doctoral Committee for the research scholar comprising of the research guide and two external experts as members for appointment by the Registrar.

All the candidates selected for preliminary registration shall join the College first as Research Scholars and then submit the provisional registration form to the University. The university approves the provisional registration and the broad area of research.

All the candidates shall undergo a course work after provisional registration as part of Ph.D. Programme in the first year and complete three courses.

The Doctoral Committee meets within three months of the provisional registration of the candidate, finalizes the courses the candidate should undergo. The registration is confirmed only after the completion of the coursework, but in any case not later than two years. The University issues the letter for permanent registration for Ph.D. programme after the completion of the course work by the candidate.

There are four sessions of the registration and the last dates for submission of application forms for preliminary registration are as follows.

Session	Last Date
January	1st December
April	1st March
July	1st June
October	1st September

2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes.

Analysis of the Admission Process

The following mechanism is adopted to analyze the admission process and student profile.

- Number of applications sold out for admission to each Programme is analyzed to understand the number of seekers for a particular programme in a given year. **(Annexure 2.4)**
- The analysis of number of admission cards sent to the students and the number of students admitted to the college gives an idea about the students' preference for other colleges for admission**. (Annexure 2.5)**

Analysis of the student profile

After the admission is over, profile of students is analyzed based on their

- marks scored in plus two examinations conducted by various boards of the College**.** This helps to understand the level of students who are admitted to the College.**(Annexure2.6)**

- areas / villages / cities / districts / states from where they hail from.**(Annexure2.7)**

Outcome

- Analysis of the student profile admitted every year to the College has enabled the college administration to launch special skill enhancement programmes like Spoken English Courses, Communicative English programmes, Bridge course at the entry level and Core Group lectures – a knowledge enhancing and motivational programme are specially designed according to their needs.
- The analysis also helps to organize transportation facilities for the students based on their geographic distribution, to receive government scholarships and find admission in college hostel/ government run hostels.

2.1.4 What are the strategies adopted to increase / improve access to students belonging to the following categories

❖ **SC/ST**

- One staff member from SC/ST Community is included in the admission committee.
- All admissions for UG, PG & M.Phil. Programmes are made according to the reservation policy of Government of Tamil Nadu.
- Though 19% of seats in admission for all the UG, PG and M.Phil. programmes are reserved for SC/ST, the College has more than25% of the students from SC/ST Communities on its roll.
- All SC/ST and OBC UnderGraduate students and SC/ST Post Graduate students are exempted from paying tuition fees to the College.
- All the SC/ST students seeking admission in the College are issued application forms free of cost.

❖ **OBC**

- All the OBC undergraduate students are also exempted from paying tuition fees to the College.
- Though as per the reservation policy of Government of Tamil Nadu, 50% of seats are reserved for OBC candidates, the number of OBC students in the College is close to 70%.

❖ **Women**

Though the College was started originally as a men's College,Co-Education system was introduced in the year 2007-2008 to promote access of Higher Education to Women in this region. Now 1066girl students are studying in the College in UG, PG and M.Phil. programmes.

❖ **Different categories of persons with disabilities**

Differently-abled students are admitted in all the programmes under the quota allotted for them. There are 08differently–abled students and 01 visually challenged students in the College. The list of differently-abled and visually challenged students who studied during the last four years is given in **Annexure2.8**. To facilitate their easy movement, the college has constructed ramp facility in all the buildings in the college. A lift has been provided in Jawaharlal Nehru Block for the benefit of physically challenged students and staff. To encourage differently abled students to join the College, equipment such as tricycle and wheel chair are provided for their use in the campus.

A facilitation center for visually-challenged students has been established in the college. The center has special equipment like Braille dictionary, audio-books, computers and software that can support the learning process of blind students.

❖ **Economically weaker sections**

A vast majority of the students in the College hail from families of Agricultural labourers and daily wage earners. Many students earn while they learn to meet out their educational expenses. Fee concession is extended to the students of economically weaker sections after proper verification.

❖ **Outstanding achievers in sports and extracurricular activities**

Outstanding achievers in sports are given free education and free accommodation. 11 students are staying in the hostel under free education category**(Annexure2.9).**The travel expenses and other incidental expenses are met by the College to facilitate the students' participation in the competitions. Exclusive coaches are engaged for training the students in the respective event. Achievers in the Sports and extra-curricular activities are honoured during the college day celebrations with special cash awards.

2.1.5 Furnish the number of students admitted in College in the last four academic years.

Categories	2011-2012		2012-2013		2013-2014		2014-2015	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	88	51	73	47	77	57	105	46
ST	14	04	07	05	04	04	---	04
OBC	163	62	144	131	182	98	312	52
General	02	---	07	01	05	03	51	18
Others	---	---	---	---	---	---	---	---

2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase / decrease.

Yes. The demand ratioof the various programmes are analyzed by deriving a ratio of number of seats available to the number of applicants. The ratio for various programmes is provided below.

Programmes		Number of applications	Number of students admitted	Demand Ratio
UG				
1.	Economics	50	33	1:1.52
2.	English	125	36	1:3.48
3.	History	50	15	1:3.33
4.	Tamil	30	29	1:1.03
5.	Botany	24	24	1:1
6.	Chemistry	97	45	1:2.15
7.	Geology	100	40	1:2.5
8.	Mathematics	80	47	1:1.70
9.	Physics	108	50	1:2.16
10.	Zoology	24	22	1:1.09
11.	B.Com	170	88	1:1.93
12.	Biotechnology	40	---	---
13.	Computer Science	143	100	1:1.43
14.	Information Technology	30	---	---
15.	Statistics	40	---	---
16.	B.C.A	135	96	1:1.40
17.	Physical Education	40	38	1:1.05

18.	B.Com (C.A)	60	56	1:1.07
19.	B.B.A	110	82	1:1.34
20.	B.Litt.	50	---	---
PG				
1.	Economics	05	03	1:1.6
2.	English	100	20	1:5
3.	Tamil	25	11	1:2.27
4.	Human Resource Management	35	---	---
5.	Applied Geology	23	12	1:1.91
6.	Botany	07	07	1:1
7.	Chemistry	96	16	1:6
8.	Mathematics	85	24	1:3.54
9.	Physics	66	22	1:3
10.	M.Com	114	20	1:5.7
11.	Zoology	05	05	1:1
12.	Biotechnology	02	02	1:1
13.	Computer Science	60	36	1:1.67
14.	Information Technology	30	---	---
15.	Microbiology	25	---	---
16.	M.Com (FM)	40	36	1:1.11
17.	M.S.W	---	---	---
18.	M.B.A	---	---	---
Integrated Masters		---	---	---
M.Phil.				
1.	Botany	35	10	1:3.5
2.	Chemistry	59	17	1:3.5
3.	Commerce	56	07	1:8
4.	Economics	31	24	1:1.3
5.	English	95	41	1:2.31
6.	Geology	---	---	---
7.	Mathematics	81	32	1:2.53
8.	Physics	55	22	1:2.5
9.	Tamil	58	31	1:1.9
10.	Biotechnology	10	03	1:3.3
11.	Physical Education	05	02	1:2.5
Certificate				
1.	Factory Management	25	20	1:1.25
2.	Tourism and Travel Management	20	20	1:1

3.	Biomedical Waste Management	22	22	1:1
Diploma				
1.	Gemology	---	---	---
2.	Journalism and Editing	25	25	1:1
3.	Welding and Fabrication	25	25	1:1
4.	E-commerce and Accounting	25	25	1:1
5.	Banking	---	---	
PG Diploma				
1.	Bioprocess Technology	04	04	1:1
2.	Clinical Trial Management and Regulatory Affairs	08	08	1:1
Any other		---	---	---

The demand for Geology programme has greatly increased during the last five years. The reasons are 1) the overall performance of the department and 2) the increase in awareness of the importance of studying Geology.

The demand for Chemistry, Physics,Mathematics and English has also increased in the recent years. The reason is the availability of employment opportunities for the post of teachers in schools and colleges. The demand for programmes like Tamil and Economics has decreased. The reasonmay be assigned to the decreased opportunity for employment. It is observed the increase and decrease in demand for a particular programme has direct relation to increase or decrease in employment opportunity.

2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

B.A and M.A Philosophy programmes were discontinued. There were no seekers for admission to these programmes consecutively for 5 years.The details of admission for the last five years before the closure are provided below.

S.No.	Academic Year	No. of Students admitted in UG course	No. of Students admitted in PG course
1.	2008-2009	06	02
2.	2009-2010	04	---
3.	2010-2011	---	03
4.	2011-2012	---	04

2.2 Catering to Student Diversity

2.2.1 Does the College organize orientation / induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.

- Yes. On the very first day, the freshers are given information about the functioning of the college, details of curriculum, extracurricular and sports facilities available in the college, library, hostel and so on.
- A Bridge Course is organized for 90 hours for all the undergraduate students at the beginning of the first year. During the bridge course motivational speakers, journalists, spiritual leaders, Police and Government officials etc deliver lecturers during the last session of every day. Soft skill, English grammar, spoken English etc are the topics covered in the bridge course. The list of speakers is given in **Annexure2.10.**

2.2.2 Does the College have a mechanism through which the "differential requirements of student population" are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Yes.

Core Group

A knowledge enhancing and motivational programme is organized exclusively for core group students every week. The top two students from every class are chosen to form a team called 'Core Group'. Lectures are arranged for the enrichment of the knowledge of these students from across disciplines to promote their success rate in competitive exams and other Service Commission Exams.

Special coaching for sports and games

Students with good athletic track record or with commendable performance skills in other sports are pooled every year from the newly admitted students and are given special coaching in two respective events to improve and enhance their sports performance. As a result, National College has acquired fairly strong teams in games like Cricket, Soccer, Volley Ball, and Kabaddi. The athletes of the College have won laurels for the College in many events at the state and national level.**(Annexure2.11)**

2.2.3 Does the College provide bridge /Remedial /add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

Yes.

Bridge Course

- All the students admitted in the first year UG programme have to undergo 90 hours of Bridge Course at the beginning of the year. The course covers topics on English grammar, comprehension, letter writing, simple communication techniques etc. Motivational speakers deliver special lectures to inspire and train them on leadership qualities.

Add-On Programmes

- Add on Programmes are offered in many areas such as Journalism and Editing, Fabrication Engineering, Factory Management, Bio-medical Waste Management, E-Commerce and Accounting, Clinical Trial Management and Bioprocess Technology. Students under relevant Degree programmes avail these Add-on / Career Oriented Programmes during their studies to enhance their knowledge, skills and employability.

Remedial Classes

- Students who fail in end semester examinations are given Remedial Coaching classes. Each department identifies the failed students and staff members handle classes for them after the College hours. English language teachers also handle remedial coaching classes for the failed students. The College has obtained grants from UGC to pay remuneration to the teachers who handle remedial coaching classes for SC/ST students.

2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, physically handicapped and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

- About 90 % of the students of the College belong to SC/ST and BC category. All the fee concessional support and scholarships are provided to them to reduce the financial burden of the education.
- Physically challenged students are given necessary infrastructural and instrumental support for their easy movement in the College.
- Slow learners are provided with extra coaching after the College hours. The Library hours

are extended up to 8.00 p.m. in the night to support them. Remedial classes are conducted.

* Earn while learn scheme is adopted to support the economically poor students. The poor students are employed as part time employee in the College library and sports department.

2.2.5 How does the institution identify and respond to the learning needs of advanced learners?

* The advanced learners are given extra coaching in communicative English, coaching for Entry into civil services and coaching for NET/JRF examinations.
* A **core group** of students consisting of two meritorious students from each class has been formed. The group is given training for over-all development.
* **Self study courses** have been included at UG and PG levels with additional credits.

2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

* Ramp facilities have been provided to all the buildings in the College in order to facilitate easy movement of differently-abled students.
* Braille papers and pins are provided to all the blind students free of cost.
* A blind studentsfacilitation center has been established in the college. The center has equipment for supporting blind students in the learning process.
* Visually challenged students have been provided with the service of scribes at the time of examinations.
* Wheel chairs and hand pedaled cycles are provided free of cost to physically challenged students.
* Exclusive toilets have been constructed for differently- abled persons.
* A lift facility has been provided in Jawaharlal Nehru Block in the College for the benefit of differently -abled students.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

Academic Calendar

Academic Calendar of the College is meticulously prepared by a team of members headed by the Principal. It is properly structured. Definite schedule of academic activities is

incorporated. Start and end dates of semester, schedule of CIA Exams I & II, deadlines for submission of assignments, payment of fee dates of Alumni meet and other important events.

Teaching Plan

- Each Department finalizes the allotment of work for teachers at the end of every semester and frames timetable accordingly for the subsequent semester. Each teacher is assigned with the subjects to be taught during the next semester in order to provide sufficient time for planning and preparation of the contents and material for teaching.
- In the Science Departments, Instructional manuals are prepared in advance for laboratory experiments and are also made available to the students. In humanities, a teacher chalks out his teaching plan for a particular unit and familiarizes the students with the using of necessary aids like graph sheets, dictionary, maps, reference books and so on for further learning.
- Teachers enjoy autonomy to devise their own teaching plan to fully realize the objectives stated for each course.

Examination and Evaluation

- Two Continuous Internal Assessment (CIA) tests are conducted to evaluate the performance of the students in every semester. Submission of three assignments for each course is made compulsory for the UG and PG students for the award of CIA marks. The dates of CIA test and assignments are announced to the students well in advance in the calendar issued to them.
- PG Students are given dates to handle seminar on the chosen subjects. Marks are awarded for this seminar and included under the CIA marks in respective subjects.
- M.Phil. students, in consultation with their guides prepare seminar topics and make power Point Presentations. Teaching practice is compulsory for M.Phil.students.
- It is compulsory for the Ph.D., students to deliver seminars with Power Point Presentation as part of their course work.
- As an Autonomous Institution, the College conducts its own semester exams. Soon after the exams, answer scripts are evaluated. The office of the Controller of Examinations looks after the schedules of exam dates, valuation of scripts and publication of results in the website.

- To ensure fairness, examiners are invited from outside the College. Boards of the respective programmes prepare solemnly for evaluation.

2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

- Yes. The HODs and staff of the department conduct a Orientation programme to explain the courses to be studied and schedule for each semester at the beginning of the year.
- This helps the students to understand the broad course structure of the programme and provides a suitable backdrop for learning.

2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

- Language courses like Tamil, English, Hindi and Sanskrit are predominantly taught by lecture method.
- Core, Allied, Non-major and Value Education etc courses are also taught by lecture method in Arts and Commerce programmes.
- In Science programmes, lecture and practical methods are widely adopted.
- Industrial visits and field visits are compulsory part of Botany, Chemistry, Geology, Physics and Zoology programmes.
- Association meetings and Core group meetings facilitate upgrading and updating of knowledge.

2.3.4 How is 'learning' made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

- Most of the students come from Tamil Medium schools. Their learning capacity is rated as "below average". Since the medium of instruction is English, simultaneous explanation in Tamil is also done in the classroom. Students are taught basic Grammar and essentials of communication in English after the College hours. They are encouraged to read news papers, simple moral stories etc to improve their learning process.
- To improve the students' cognitive skills, interactive method is also followed. Students learn by asking questions and seeking explanations. Student talk time is given importance.

- To promote discovery learning, students are often given challenging assignments. Problem-solving is another technique widely used in classrooms.
- Students are encouraged to participate in various competitions like Quiz programmes, Debates, Oratorical contests to get outer world exposure. Special talks on subjects like 'Art of Living', 'Personal Hygiene', 'Aids Prevention', and 'Blood Donation' have inculcated life skills in students.
- To develop reading habit, the library, the reading room and the study centre are kept open till late in the night every day. Soft skills programmes, Yoga and *Manavalakalai* Programme are arranged for the benefit of the students.
- Students are further encouraged to continue their studies through distance education and other modes.

2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures / seminars for students?

- Each department has an academic association. Principal of the College is the Chairman for the Academic Association. Every year, a Vice-President is chosen among the staff of the respective department. A student secretary is nominated by the Vice-President. Three meetings are conducted every semester inviting eminent persons in the respective field to deliver lectures. The details of Association meetings in the last four years are provided in **Annexure2.12.**
- The College has established number of endowments for special lecture programme. Eminent scholars/Scientists are invited to deliver the Endowment lectures. The details of Endowment lectures in the last four years are provided in **Annexure2.13.**
- During the Workshops/Seminarsorganized by the College, Invited/Plenary lectures are organized. Eminent persons in the respective field deliver these lectures. **(Annexure2.14)**

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

- National College considers ICT as a priority in its implementation. Every Block has a Seminar Hall and every department has been provided with Computer/Laptop, LCD Projectors / Smart Boards etc for the effective implementation of ICT based learning.

- Science Departments such as Biotechnology also maintain a registry of free e-resources in the form of Audio-Visual CD presentations for advanced concepts in Life Sciences. E-books have been collected from reputed institutes around the world through open sources.
- Webinar is conducted on specialized topics.
- Video conferencing of lectures delivered in IIT's and IIS are made available to the students and staff.
- The entire campus is WiFi enabled.
- Every department has been connected with Internet for use of faculty for the preparation of slides, lectures, animations and Audio-Visuals.
- National College is a part of National Mission on Education through ICT (NME-ICT) in collaboration with BSNL. Under this scheme, individual telephone connection and Internet has been provided to every department.
- National College is linked to the INFLIBNET Services provided through Bharathidasan University, Tiruchirapalli. Staff and Research Scholars of each Department are provided with Username ID and Password for access to NLIST (National Library and Information Services Infrastructure for Scholars content).

2.3.7 Is there a provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

- On the first day of the every semester, Principal convenes the students meeting to inform them of the general deficiency noticed during the previous semester and to give them information about activities of the forth-coming semester.
- Under the**Tutor Ward System**adopted in the College, a teacher is made in charge of a group of students. The tutors give them counseling and continuously monitor them right from the date of admission to the date of leaving of the college.
- Every studentis assigned to a particular teacher in the department as 'Tutor'. After every CIA / Semester Exam, and in other times of need, the tutor interacts with the students.He takes steps to communicate the progress of the candidate to their parents / guardians through a booklet. This booklet gives information about the percentage of attendance,

students' internal marks and comments on his learning trend. The booklet is sent to parents / guardians for their signature and to ensure proper communication.

2.3.8 Are there any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Many progressive changes have been introduced in the four years with tremendous positive results.

* ICT based teaching – learning system – using smart boards and other multimedia.
* Field study in many departments such as Botany, Zoology, Geology and Biotechnology for learning new concepts and to get a realistic experience.
* Tutor-Ward system for mentoring the students and progressive guidance.
* Establishment of online access to e-resource materials.

Institutional Support for the Innovative Approach

Every department and faculty has been given the freedom to prepare the curriculum under Autonomy and transfer the knowledge by developing new methods and ideas.

* To promote research activities, the faculty is being rewarded with a 'Gift Cheque' at the end of every semester.
* To promote the spirit of publishing research articles also, the management rewards the faculty for publishing papers.
* Every Department has been supplied with a LCD projector and computer systems to promote ICT based teaching – learning in the classroom.
* WiFi and smart boards are other amenities available to meet the needs of the faculty, scholars and students.
* Management recognizes senior persons from teaching and non-teaching for their commendable services by presenting them a Wrist watch each one at the completion of 25 years of services.

Impact of innovative practices on students and faculty

* Increase in the number of research projects and publications
* Many staff members serve as resource persons in College-level, state-level and national-level Seminars and workshops.

- Increase in the pass percentage of students and better performance in class Seminars
- Improvement in the confidence level of students.
- Rise in the number of students who are selected in campus recruitment
- Increase in the enrolment of students in all the degree programmes every year with higher level of competition
- Increase in the demand for seats in many departments such as English Literature, Geology, Physics, Chemistry and Mathematics.

2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

Number of intercollegiate as well as Inter-Department competitions are conducted to bring out creativity and scientific temper of students.

Creativity

- An intercollegiate Cultural and Literary Competition is conducted annually in the name of NACOFEST to bring out the creativity and talents of students.
- The Department of Computer Science conductsannually an intercollegiate competition in the name of NACOTECH among the students of Computer Science of various Colleges in the region on themes related to Computer Science.
- The Department of Mathematics conducts annually an intercollegiate competition in the name of NACOMAT among the students of Mathematics of various Colleges in the region on themes related to Mathematics.

Scientific Temper

- A massive Science Exhibition was held at the College on the 7th, 8th and 9th October, 2013. Hundreds of displays and demonstrations were presented to explain the scientific concepts and principles. It provided an enthralling experience of education and entertainment to nearly 10,000 young school students of the region.
- During the exhibition, the students of Science demonstrated their skills and knowledge to create Scientific Temper among the visiting school children.
- The Department of Physics organized a Science exhibition as a part of their Golden Jubilee Celebrations.
- The Department of Physics conducts a number of programme on the 28th February of every yearas a part of the World Science day Celebration.

2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

Yes. Individual Project work is mandatory for all the PG programmes.

- **Number of projects executed within the College**

1008 projects have been executed by the PG students and 317 by M.Phil.students during the last four years.

- **Names of external institutions associated with the College for student project work**

The following external institutions are associated with the College for student project work.

- Orchid Chemicals (P) Ltd.,
- Salem steel plant, SAIL
- Dalmia Cement (P) Ltd.,
- India Cement (P) Ltd.,
- Mettur Chemicals (P) Ltd.,
- High Energy Batteries Ltd.,
- Soil Test Laboratory, Department of Agriculture
- Ramco Cement (P) Ltd.,
- Indian Institute of Technology, Chennai.
- Indian Institute of Science, Bangalore
- NCBS, Bangalore
- TWAD Board
- Ground Water Division, PWD
- Centre for Crystal Growth, Anna University, Chennai
- CECRI, Karaikudi
- SSN College of Engineering, Chennai.

- **Role of the faculty in facilitating such projects**

The students are encouraged to choose their own topic and methods.The facultyguidesthe candidates in framing the methodology, collecting and processing data and deriving the results.

2.3.11 What efforts are made to facilitate the faculty in learning / handling computer-aided teaching/ learning materials? What are the facilities available in the College for suchefforts?

- Each department is provided with computers and LCD projectors in order to facilitate the staff members adopt ICT enabled teaching.
- Webinars are conducted through Internet in many departments.
- Online training are also offered for a few courses.
- Lectures by Nobel Laureates and eminent scientists are presented in the campus, through video conferencing.
- Free WiFi is provided to all the staff and students.

2.3.12 Does the College have a mechanism for evaluation of teachers by the students / alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

- Yes. Each student evaluates the teachers based on the common criteria.
- The evaluative reports are analyzed by IQAC and the concerned teacher is provided with a copy of the report with suggestion for improvement. The format for evaluation of staff by students is given in **(Annexure2.15).**
- Teachers improve their knowledge, skills and methods based on the suggestions.

2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.

No. The course content to be taught during a semester is assigned to individual staff well in advance.The required number of hours is also allotted in the timetable. The insufficient time for completing the syllabus will arise only when the teacher goes on long leave or on other duties. In such cases it is the responsibility of the teacher to complete the syllabus allotted to him/her after resuming the duty. They complete the assigned portion by taking extra classes. If necessary, the workload is redistributed to other teachers to complete the syllabus.

2.3.14 How are library resources used to augment the teaching-learning process?

- The library is an integral component of the teaching learning process at National College. The library which was functioning at two separate buildings for Arts and Science earlier has now been relocated in a single massive block with all the modern facilities.
- At the beginning of the Degree Programme, every year, to motivate the students to become regular users of the library, the Principal and the Librarian give a pep talk underscoring the importance of library in enriching knowledge.
- All the students admitted to first UG programme are given an orientation towards the effective use of library facility.
- The lending and return of books are managed through bar code system.
- All the reference books and journals can be accessed by any student of the college.
- Multiple copies of standard text books and reference books for all the courses are made available.
- OPAC-Open Access to Library Books is made available in the College website. This enables students to browse through the library stock list online.
- The library remains open on all working days and even on holidays other than public holidays beyond the regular college working hours.

2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.

The College has adopted CBCS and Continuous Internal Assessment for the evaluation and monitoring of students. The Heads of Departments and the Principal observe the faculty and assess their performance on a daily basis. Further, to keep track of the faculty performance and to guide them, feed-back is obtained from the students on the faculty. Similarly, feedback on the infrastructure facilities is also taken seriously to upgrade and update so as to create a proper environment for teaching – learning process.

Measures to monitor and evaluate quality of teaching-learning process

- Academic schedules and details of the system of monitoring and evaluation of students' performance are duly explained in the College Handbook.
- Students are evaluated both by CIA and external evaluation by subject experts.

- The Continuous Internal Assessment process is based on a specific method which has been explained in section 2.5.2 the following parameters.

Teaching and learning is personally evaluated by the Heads of Departments for the evaluation of students and assessment of their assimilation level. Three assignments are given for each subject. In addition, weekly tests are conducted by the staff. CIA tests and end semester examinations are held at the College level. Performance of students is evaluated and recorded in the Counseling reports maintained by the Tutor.

- PG students are required to handle seminars on selected topics with the aid of power point presentation.
- For the M.Phil. students, teaching practice is compulsory. Their performance is evaluated by the staff.
- Apart from these, field/Industrial visitsare organized. Students submit their reports on the visits. Laboratory assignment, paper presentation and viva-voce examinations are also periodically conducted to monitor the holistic progress of the candidate.

2.4 Teacher Quality

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

Sanctioned Teaching Post	237+1
Current Faculty Strength	193 + 14
Faculty from outside the state	---

2.4.2 How are the members of the faculty selected?

Every year College sends a report to the Director of Collegiate Education giving the details of vacancy positions in teaching posts.Soon after the Director of Collegiate Education accords permission to fill them up, the list of eligible candidates is called for from the employment exchange. Simultaneously, advertisements are released in the newspapers inviting applications from eligible candidates for appointments. All the eligible candidates in the list sent by the employment exchange and the candidates who applied in response to the advertisements are called for the interview. A committee constituted as per the guidelines of the UGC, conducts the interview and selects candidates based on overall performance, merit and

aptitude. The UGC guidelines and command master are strictly followed in the process.The appointment orders are issued subject to the condition of approval of the appointment by Bharathidasan University and the approval of JDCE.

2.4.3 Furnish details of the faculty

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	-	-	55	05	32	12	104
M.Phil.	-	-	07	01	36	45	89
PG	-	-	-	-	-	-	-
Temporary teachers							
Ph.D.	-	-	-	-	03	03	06
M.Phil.	-	-	-	-	03	05	08
PG	-	-	-	-	-	-	-
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

National College is always known for its Human Resources and values since its establishment in the year 1919. This has been achieved by its meticulous plan to recruit and manage human resources to ensure high standards and excellence.

2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

19 Teachers have completed NET/SLET Exams.**(Annexure2.16)**

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

Department	% of faculty who are product of the same College	% of faculty from other Colleges within the State	% of faculty from other States	% of faculty from abroad
Biotechnology	---	85%	15%	---
Botany	10%	90%	---	---

BBA	---	100%	---	---
Chemistry	20%	70%	10%	---
Commerce	25%	75%	---	---
Computer Science	---	100%	---	---
Economics	20%	80%	---	---
English	40%	60%	---	---
Geology	90%	10%	---	---
History	---	75%	25%	---
Mathematics	40%	50%	10%	---
Physical Education	25%	---	75%	---
Physics	30%	70%	---	---
Tamil	50%	50%	---	---
Zoology	10%	90%	---	---

2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?

The College has qualified and competent teachers to handle all the courses. There are 108 teachers with Ph.D.**(Annexure2.17)** and99 teachers with M.Phil.**(Annexure2.18)**qualifications. Many of the teachers with Ph.D. are approved research guides. If there is any delay in obtaining approval from the Director of Collegiate Education for appointment of teachers, the management appoints teachers using their own resources.There are 14 management staff in the College **(Annexure2.19).**

2.4.7 How many visiting Professors are on the rolls of the College?

There are 04 visiting and 05 Guest professors are on the rolls of the College.**(See Annexure 2.20)**

2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/international conferences/Seminars, in-service training, organizing national/international conferences etc.)

- The Management encourages staff members to submit proposals seeking grants from sponsoring agencies for the conduct of Minor and Major Research projects, Seminars and

Workshops. 12 Major Research Projects and 10 Minor Research Projects have been sanctioned to various departments of the College in the last four years.

- Management supports faculty members to go on study leave for doing full time research. A teacher (Dr. M. Murali, Department of Chemistry) went to the Netherlands under BOYSCAST Fellowship of the Department of Science and Technology for one year.
- Management encourages staff members to attend and present papers in Seminars / Workshops / Conferences and rewards them with a gift cheque for each presentation. 75 staff members have been awarded cash incentives in the last four years for publication of research papers and books(**Annexure2.21**) and Staff members are also given cash incentives for presenting papers in Seminars / Workshops / Conferences.
- The management provided partial financial support to attend conference in abroad to the following staff.
  - Principal Dr. K. Anbarasu attended **7th International Conference on Geomorphology (ANZIAG) Ancient Landscapes – Modern perspective** held in Melbourne, Australia from 06.07.2009 to 11.07.2009.
  - Dr. D. Saravanan, Department of Chemistry attended**4th International Conference of Chemistry and Environment** held at Ubon Ratchathani, Thailand during 21-01-2010 to 23-01-2010.
  - Dr. K. Srinivasan, Department of English attended an **International Conference** on **World Murugabaktha** held in the Department of Indian Studies, University of Malaya in September 2012.
  - Dr. S. Senthil Kumar, Department of Biotechnology attended Second **International Conference on Water Resources and Environmental Management** : Water, Food, Energy security and Climate change held in Geneva, Switzerland in April 2013.
  - Dr. K. Srinivasan, Dept. of English attended an **International Conference** organized by **Journal of Arts and Science** held at Munich, Germany in June 2013.
  - Dr. A.T. Ravichandran Dept. of Physics attended an **International Conference on Materials for Advanced Technologies (ICMAT-2013)** at Singapore in June 2013.
  - Dr. D. Saravanan Dept. of Chemistry attended **6th International Conference of Chemistry and Environment (ICCE-2013)** at Antwerp, Beljiumin July 2013.

- Dr. V. Nandagopalan, Dept. of Botany attended **World Biodiversity Conference** at Thailand, in November 2013.
- Dr. K. Srinivasan, Associate Professor, Department of English Attended an **International Conference organized by IEDRC** at Kuala Lumpur, Malaysia in May 2014.
- Dr. K. Srinivasan, Associate Professor, Department of English attended an **International Conference on Language Linguistics, Literature and culture** in November 2014 at Malaysia.
- Dr. A.T. Ravichandran Associate Professor, Department of Physics attended an **International Conference on Biotechnology and Bioengineering** in October 2014 organised by Microbiologist society, India and BITS Pillani Dubai Campus, Dubai.
- Dr. S. Senthil Kumar, Assistant Professor, Department of Biotechnology delivered a Key note address on the 3rd (ICWRE) **International Conference on Water Resource and Endowment**, Organized by Global Institute for Water Health Endowment (GIWEH), Antalya, Turkey. (June – 2014)

* 49 Seminars and Workshops have been conducted in the College in the last four years**(Annexure2.22).**A function is organized on the last working day of each semester to honour the teachers who have made significant and special contribution during the semester. Cash awards and Mementos are presented in the function to the organizing secretaries of seminars and workshops.
* Teachers are permitted to attend Orientation and Refresher courses periodically as per the UGC norms.

2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.

1. ThePrestigiousBest Teacher Award – 2011 instituted by Chemical Research Society of India (CRSI) was conferred on Dr. M. Murali, Associate Professor, Department of Chemistry during the Annual Conference of CSIR- held in National Institute for Interdisciplinary Science and Technology, Trivandrum, India on February 5, 2012.
2. Youth Red Cross society of our College has been adjudged as the best performing unit among the colleges affiliated to Bharathidasan University. The Award for the same was presented by Dr. V.M. Muthukumar, Vice-Chancellor, Bharathidasan University,

Tiruchirapalli in a function held on 16.02.2016 and received by Dr. S. Senthil Kumar, Co-ordinator, YRC.

3. Dr.N.Renganayaki, Assistant Professor, Department of Economics received **Best Teacher Award**– 2015 from the GRABS Educational Charitable Trust Chennai, in a function held on 1st November, 2015.
4. Dr.D.Saravanan, Assistant Professor, Department of Chemistry presented by the Global Economic Progress & Research Association (GEPRA) New Delhi (**Best Citizen of India Gold Medal Award** of excellence) on the occasion of 32nd National Unity Conference on Individual achievements and National Development on 26th January, 2016 at Bengaluru.
5. Dr.A.T.Ravichandran, Associate Professor, Department of Physics received **Best Organizer Award**from the Department of Atomic Energy for the Diamond Jubilee State level Quiz competition held during 14th& 15th July, 2015
6. முனைவர்.M.மாணிக்கம்,தமிழ்த்துறைபேராசிரியர்,**நற்றமிழ் நாயகன் விருது**திருமுறைமன்றம் (திருமுறைவைப்பு) - 12 ஆகஸ்ட், 2014
7. Dr.R.Elavarasu, Head and Associate Professor, Department of English received **பேரறிஞர் அண்ணாவிருது**செம்மொழிதமிழாய்வுபன்னாட்டுமன்றம்,காரைக்கால் special lecture on பேரறிஞர் அண்ணாசிறுகதைகளில் சமுதாயவிழிப்புணர்வுheld on 14 December, 2014
8. Dr.R.Elavarasu, Head and Associate Professor, Department of English received **செந்தமிழ் கோவிருது**அந்தமான் தமிழர் சங்கம்,special lecture on கம்பன் கண்டதம்பிமார்கள் 29-4-2012
9. Dr.R.Elavarasu, Head and Associate Professor, Department of English received **தமிழ் மாமணிவிருது**தமிழய்யாகல்விகழகம்,கோவாspecial lecture on Translation of Tirukkural29 December, 2013.

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)

Academic Staff Development Programme	Number of faculty
Refresher Courses	26
HRD Programmes	---
Orientation Programmes	01
Staff training conducted by the College	---
Staff training conducted by University/other Colleges	---
Summer/Winter schools, workshops, etc.	---
Any other	---

2.4.11 What percentage of the faculty have

- **been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies**

  25% of staff members serve as resource persons in workshops/seminars conducted in other institutions. 40% of staff members visit other Colleges for delivering special lectures. **(Annexure2.23)**

- **participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies**

  75% of staff attendedworkshops/seminar/Conferences**(Annexure 2.24).**

- **presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies**

  50% of staff members present papers in the seminars/workshops organized by national/international professional bodies. **(Annexure 2.25)**

- **teaching experience in other universities / national institutions and others**

  5% of staff have worked in other Colleges/Universities before joining National College, Trichy.

- **industrial engagement**

  1% of staff have industrial service before joining National College teaching job.

- **international experience in teaching**

  None of the faculty has International teaching experience.

2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

- **Curricular Development**

Academic Council of the College meets twice in a year. The various aspects of curriculum development and revamping are discussed in the meeting and change in academic programmes are finalized.

- **Teaching-learning methods**

Every year on the first working day Principal conducts a meeting of the staff and motivates them to evolve new teaching-learning methods.

- **Examination reforms**

There is an Examination reform committee in the College which brings out

improvementsin the examination system and informs the staff members the changes that have been introduced.

* **Content / knowledge management**

Seminars/Conference are organized in various departments of the College in their respective fields. Eminent Scientist/Researchers are invited for Plenary Lectures. The College also invites eminent persons for Endowments lectures. The staff acquire knowledge and expertise on the recent trends by their active participation in these events.

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

* Remedial Coaching is conducted for students who fail in end semester Examinations
* Communicative English class is organized after the class hours
* Special lectures are organized periodically in all departments
* Core Group of students is given special training.
* Staff of Department of Geology, Biotechnology and Physics have conducted Webinars.
* IIRS, DehraDun, EDUSAT programme on Remote sensing, GIS, Disaster management was provided to the students of UG and PG students of Geology.
* Modern gadgets like LCD Projector, interactive board and ICT methods are used in class room teaching. This has made the learning process lively and effective.

2.4.14 Does the College have a mechanism to encourage

* **Mobility of faculty between institutions for teaching?**

Experts from otherColleges are invited to deliver special lectures on their field of specialization. 145 Lectures have been delivered in various departments during the last four years. **(See Annexure2.12)**

Our College teachers also deliver lectures to students of other Colleges and attend seminars/workshops as resource persons.

* **Faculty exchange programmes with national and international bodies?**

Dr. S. Manikavasagam, Professor of Geology, IIT, Roorkee teaches at the college during alternate semesters.

If yes, how have these schemes helped in enriching quality of the faculty?

The faculty of the College develop contact with the resource persons who come here

and continue to work jointly in their researches. The faculty gain much to their interaction with experts. They develop their skills and sharpen their knowledge in specific areas.

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

- Evaluation methods are detailed in College calendar. Students are provided with a copy of the syllabus of the programme.
- Photocopies of the valued answer script are provided to the students, if they desire.
- Re-totaling and Re-evaluation facilities are provided to the students who seek it.
- Internal Assessment marks are displayed on the notice board with break up.
- Valid answer scripts of CIA tests are given to students.

2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?

Continuous Internal Assessment system was introduced to all the Under Graduate and Post Graduate Programmes during 2005-2006. It was then revised in2011. For each theory course, the internal assessment is made for a maximum of 25 marks and the external evaluation is done for a maximum of 75 marks. For each practical course the internal assessment is for a maximum of 40 marks and external evaluation is for a maximum of 60 marks. The same system is followed in the Post Graduate Programmes. Two Continuous Internal Assessment tests are conducted in each semester. Three assignments are given to the students for each course. CIA evaluation is based on the following method.

Components	Under Graduate	Post Graduate	M.Phil.
Assignments	3X2 Marks = 06 Marks	3X2 Marks = 06 Marks	5X2 Marks = 10 Marks
CIA Test	2X7 Marks = 14 Marks	5+7 Marks = 12 Marks	1X10 Marks = 10 Marks
Seminar	---	1X2 Marks = 02 Marks	1X5 Marks = 05 Marks
Teaching Practice	---	---	10 Marks
Attendance	05 Marks	05 Marks	05 Marks
Total	**25 Marks**	**25 Marks**	**40 Marks**

Grading system followed by the College is given below.

Range of Marks	Grade	Classification	Grade Point
90 - 100	O	Outstanding	10
80 - 89	D+	Excellent	9
75 - 79	D	Distinction	8
65 – 74	A+	Very Good	7
60 – 64	A	Good	6
50 – 59	B	Average	5
40 – 49	C	Satisfactory	4
Below 40	U	Re-appear	0
Absent	---	---	---

For the calculation of grades the following method is to be adopted

$$\text{Grade Point Average (GPA)} = \frac{\sum(\text{credits x Grade points})}{\sum \text{Credits}}$$

$$\text{Cumulative Grade Point Average (CGPA)} = \frac{\text{Sum of the multiplication of grade points by the credits}}{\text{Sum of the credits of the course /paper}} \text{over semesters}$$

CGPA	GRADE	CLASSIFICATION OF FINAL RESULT
9.0 - 10.0	O	First Class with Exemplary
8.0 - 8.9	D+	First Class with Distinction
7.5 - 7.9	D	
6.5 - 7.4	A+	First Class
6.0 - 6.4	A	
5.0 - 5.9	B	Second Class
4.0 -4.9	C	Third Class
Below 4.0	U	Re-appear
Absent	---	---

Note : GPA and CGPA for Part I, II, III, IV & V are to be considered separately for UG Programme.

Credits

The term 'Credit' refers to the weightage given to a course, usually based on the instructional hours and contents. The total minimum credits required for completing a UG Programme is 120 and for PG programme is 90. The programme structure and details of credits

for individual components and individual courses are given in the calendar as well as the website.

Ranking System

The Rank certificates (First Rank) are issued to rank holders in every programme under Autonomous Stream. The Bharathidasan University, Tiruchirapalli, conducts University Rank Examination (URE) for the toppers in every programme. First rank-holders of all autonomous colleges and top 20 Rank holders of non-autonomous colleges (having passed the examinations in the first appearance within the prescribed duration of the programme)are required to take the examination. The question papers of the examination comprise of objective type questions covering the core courses in each of the programme. The top scorers of University Rank Examination are declared as University Rank holders, irrespective of grades in their end-semester Autonomous examinations.

2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

- Each student has to submit three assignments for each course of study.
- Continuous Internal Assessment (CIA) test are conducted two times in a semester for each course. Class tests are conducted by individual teachers.
- PG students have to make two seminar presentations for each course during a semester.
- Teaching practice is part of the Internal Assessment for M.Phil.scholars.
- All the details are entered in **counseling report** maintained throughout the duration of the programme.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?

- 25% for UG and PG theory
- 40% for UG and PG practicals
- 40% for M.Phil. theory

The mechanism to ensure rigour of internal assessment process has already been explained in 2.5.2

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

- Yes. The dates for CIA test, submission of assignments and end semester examinations are informed to the students through the college handbook. The schedule is strictly adhered to.
- The schedule of end semester examination is uploaded in the College website well in advance.

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

- Results are published within 15-20 days after the completion of end semester examinations.
- The results are published online with a link in the college website.

2.5.7 Does the college have an integrated examination platform for the following processes?

Yes.The College has a separate website for all its activities with web address **www.nctexams.ac.in**

- **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**

  Time table for end semester exam is uploaded well in advance.

  The College has provided facilities for
  - online submission of Examination application forms
  - online payment of Examination fees.
  - online payment of arrear fee.
  - issue of Hall tickets through online. A Hall ticket possesses the students photograph and schedule of examination for him/her.
  - the entry of CIA mark by staff through online
- **Examination process – Examination material management, logistics.**
  - The seating arrangement in each class isprepared through Computers.
- **Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.**
  - Results are published online.

- Payment of fees for photocopying of answer scripts, re-totaling and re-evaluation can also be made online.

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

Ph.D. thesis evaluation is carried out by the Bharathidasan University.

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

- Most of the activities of the office of the Controller of Examination have been computerized. The submission of application forms, issue of hall tickets, payment of examination and arrear fees and declaration of results are carried out through online.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

- Students can get photocopies of the answer scripts within 10 days from the publication of the results.
- Students are permitted to apply forre-totaling of marks and re-evaluation of answer scripts.
- Improvement in the Internal Assessment performance is also permitted for the students who have not done well due to genuine reasons.

2.6.Student Performance and Learning Outcomes

2.6.1Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?

Yes. The College expects the following as learning outcome of UG programme.

- Thorough fundamental knowledge of core course.
- Basic knowledge of Computer applications
- Communication skills in English.
- Understanding of Values in life.
- Good soft skills
- Environmental Awareness
- Self confidence
- Knowledge of avenues of employment and self employment.
- The Principal and staff explain the learning outcomes expected to the students.

2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?

- Continuous Internal Assessment test marks are communicated to the students within a week after the tests are over. The absentees are given an additional chance for writing the test. Failed students are also allowed to write improvement tests.
- Separate registers are maintained in each department for monitoring the progress of students. Parents are informed about the progress of the students every semester through letters and during Parent Teachers Meet.
- Students are counseled by the tutor-in-charge regarding their progress and corrective measures are suggested.
- Remedial Coaching classes are conducted for the students who fail in the University Examinations.

2.6.3 How does the institution collect and analyse data on student learning outcomes and useit for overcoming barriers of learning?

- The percentage of marks both in Internal and end of semester examinations are criteria for understanding the performance and learning outcome of the students.
- Finishing school programme is organized for the outgoing students to give them a complete review of the content of the UG or PG programme. During the finishing school programme the staff members analyze the learning outcome of students.
- At the end of the UG or PG programme, Graduates are categorized as per the percentage of total marks in the examination. This is the best indicator for the learning outcome of the students.
- Student alumni too give useful feedback based on their learning, market demands, the usefulness and relevance of their learning to the jobs they handle and their employability.

2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

S.No.	Course	Students appeared	Students passed	% of pass
1	B.Sc. Botany	14	9	64.29
2	B.Sc. Chemistry	33	26	78.79
3	B.Sc., CS	57	54	94.74
4	B.Sc. Geology	38	28	73.68

5	B.Sc., Mathematics	51	48	94.12
6	B.Sc., Physics	39	25	64.10
7	B.Sc., Physical Education	14	5	35.71
8	B.Sc., Zoology	10	6	60.00
9	B.A., Economics	12	12	100.00
10	B.A., English	85	59	69.41
11	B.A., History	12	11	91.67
12	B.A., Tamil	19	14	73.68
13	B.B.A.,	97	87	89.69
14	B.Com.	194	160	82.47
15	B.Com. (CA)	53	51	96.23
16	B.C.A.	107	84	78.50

PG

S.No	Course	Students appeared	Students passed	% of pass
1	M.Sc., Applied Geology	16	16	100.00
2	M.Sc.,Botany	11	11	100.00
3	M.Sc., Biotechnology	2	2	100.00
4	M.Sc. Chemistry	37	35	94.59
5	M.Sc., CS	14	14	100.00
6	M.Sc., Mathematics	47	39	82.98
7	M.Sc., Physics	28	27	96.43
8	M.Sc., Zoology	13	13	100.00
9	M.A., Economics	11	10	90.91
10	M.A., English	49	42	85.71
11	M.A., Tamil	8	7	87.50
12	M.Com.	41	39	95.12
13	M.Com. (FM)	5	5	100.00

Additional information regarding Teaching, Learning and Evaluation.

- The College strongly believes that it should serve as a training ground for students to acquire knowledge and skill in the respective area of study and help them lead a dignified and decent life.
- The tutor ward system is a best tracking mechanism to follow the progress of the students during their period of study. The counseling report maintained in the College for each student is a good total for monitoring the performance and improving.
- The College has an effective mechanism for the award of Continuous Internal Assessment marks.
- The students have both vertical and horizontal mobility under Choice Based Credit System.
- The formation of core group is a unique and effective step which helps the fast learners to realize their full potential.

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Cr. III – Research, Consultancy & Extension

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CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes.

- The Research Committee constitutes following members.
- Dr. K. Anbarasu (Principal), Chairman of RC
- Dr. M. Murali, Asst. Prof. (SS), Dept of Chemistry
- Dr. V. Nandagopalan, Asso. Prof., Dept. of Botany
- Dr. D. Saravanan, Asst. Prof., Dept of Chemistry
- Dr. M.S. Mohamed Jaabir, Asso. Prof. Dept of Biotechnology
- Dr. Thajudeen, Professor, Dept of Microbiology, Bharathidasan University, Trichy.
- Dr. U. Alibava, Professor, Department of Tamil, Bharathidasan University, Trichy.
- Dr. G. Archunan, Professor, Department of Animal Biotechnology, Bharathidasan University, Trichy.

The following suggestions made by the research committee have been implemented by the College.

- A common instrumentation facility in the name of National College Instrumentation Facility (NCIF) has been established in the college to support the researchers in Science departments. The centre has a wide range of advanced analytical equipment such as Scanning Electron Microscope (SEM), GC-MS, HPLC, AAS, Flow Cytometer, Fluorescence Spectrophotometer, Gel Documentation System, Millipore Water Purification System, Micro Hardness Tester, FT-IR etc.
- A full-time technician has been appointed in the NCIF to process the samples for the researchers within campus and from outside.
- Faculty Research Incentive Program (FRIP) has been instituted by the management of the College to recognize and reward the researchers. The incentives are paid based on an annual evaluation. The incentives include:
  - An incentive to the teachers who guide Ph.D. candidates, a sum equivalent to 70% of research fee paid by the research scholars.
  - A sum of Rs. 2,000/- is given as Research Incentive for each research publication made by the teachers.

- A sum of Rs. 10,000/- is provided by the management as financial assistance to each teacher who travels abroad to attend conference/workshop.
- A sum of Rs. 2000/ is paid for each book publication.
- Presentation of mementos to teachers who organize Seminars / Conferences / Workshops etc.
- Incentive payments to faculty who secure extramural funding for research and allied activities.

3.1.2 What is the policy of the College to promote research culture in the College?

The college has identified research as a thrust area and adopts a policy of providing state of the art facilities for research and active support to research activities of the faculty. The college envisages the following:

* Teaching and Research should go hand-in-hand in higher education.
* The Research should help knowledge addition in the respective area.
* Focus on research to address local/regional issues/problems.
* Proposals and awards for activities sponsored by external agencies must have due approval from the Principal.
* All research or other projects involving human subjects, animal subjects, and / or hazardous or potentially hazardous biological, chemical, or radiological agents must be conducted in accordance with the Government guidelines.

3.1.3 List details of prioritized research areas and the areas of expertise available with the College.

Prioritised areas of research and expertise in various departments are given below:

The Department of Physics

* Crystal Growth
* Liquid State Physics
* Nano-Science
* Thin Film Physics and
* Nuclear Physics.

The Department of Chemistry

* Chemical Kinetics
* Physical, Organic Chemistry and
* Inorganic Chemistry.

The Department of Geology

- Micropaleontology
- Coastal Geomorphology
- Petrology
- Sedimentology
- Geo Chemistry and
- Remote Sensing and GIS.

The Department of Zoology

- Ornithology
- Reproductive Toxicology and
- Reproductive Physiology.

The Department of Commerce

- Financial Management
- Marketing and
- Human Resource Management

The Department of Economics

- Rural Industrialisation and
- Labour Economics.

The Department of Tamil

- Folklore
- Sangam Literature and
- Modern Literature

The Department of English

- Indian Writing in English and
- African - American Literature.

The Department of Mathematics

- Graph Theory and
- Number Theory.

3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?

- **Advancing funds for sanctioned projects**

College releases grants to the Principal Investigator / Convener for kick-starting the work. This has enabled the PI or Co-PI to adhere to their schedules irrespective of the release of grants from external bodies.

- **Providing seed money**

No. There is no provision in the institution to provide seed money to the faculty for research. However, access to research laboratories with equipment and gadgets is provided to the researchers, so that they can start up their preliminary bench work. The following facilities have been created in various departments.

- In the Department of Chemistry, the instruments like Fluorescence Spectrophotometer and Geldoc were provided for the use of Dr. M. Murali and his student Ms. S. Sangeetha to support the research in the preparation of Anti-Cancer molecules.
- A separate Research laboratory has been established to support the research activities of Dr. V. Renuga, Associate Professor in the Department of Chemistry.
- Crystal growth Laboratory has been established in the Department of Physics to support Dr. A.T. Ravichandran and Dr. S. Pari in their research.
- A separate Computer Laboratory has been provided to each one of Botany, Chemistry, Geology, Physics and Mathematics departments.
- Plant Tissue Culture and Animal Tissue Culture facilities have been established in the Department of Biotechnology to support its Research work. All types of Fermentors have been procured to promote research in the field of Fermentation technique.

- **Autonomy to the principal investigator/coordinator for utilizing overhead charges**

Overhead charges are used for administrative expenses by the management. But incentives are provided to PI.

- **Timely release of grants**

Once the grants for the project are released, the Principal Investigator is free to claim advance or start using the grant for the proposed project.

- **Timely Audit**

Auditing of accounts is completed within two months from the end of the financial year. The UC and SE are submitted within the stipulated time.

- **Submission of utilization certificate to the funding authorities**

The utilization certificates and statement of expenditure are prepared by the college office and submitted to the auditor before the end of April/May and the UC and SE are sent to the funding organization not later than four months from the end of the financial year.

3.1.5 How is interdisciplinary research promoted?

- **between/among different departments of the College and**

Geo-Biotechnology

Dr. K. Anbarasu, Department of Geology and Dr. S. Senthil Kumar, Department of Biotechnology jointly conduct a Research Programme to understand the sea level changes along the coast of Tamil Nadu during recent past. The programme is funded by the Ministry of Earth Science (MoES).

Cancer Biology - Department of Chemistry & Biotechnology

Dr. M. Murali, Assistant Professor, Department of Chemistry and Dr. M.S. Mohamed Jaabir, Associate Professor, Department of Biotechnology collaborate for the Synthesis and evaluation of Anti-cancer drugs.

Anti-Epileptic drug – Department of Physics and Biotechnology

Dr. S. Ravi, Associate Professor, Department of Physics and Dr. M.S. Mohamed Jaabir, Department of Biotechnology collaborate for testing the biological efficacy of the novel drug synthesized for anti-epileptic property.

Market Survey: Joint project of Department of Commerce and Economics.

The Department of Commerce and Economics conduct a survey jointly on the investors' preferences for investments.

- **Collaboration with national/international institutes / industries.**
  - The Department of Geology has a collaborative research with IIESR, Calcutta for OSL dating for Geological samples.
  - Dr. M.S. Mohamed Jaabir, Associate Professor, Department of Biotechnology has a collaborative research with Dr. Sagar Sengupta, Scientist, National Institute of Immunology, New Delhi.
  - The Department of Biotechnology has collaboration with Consortium Clinical Research private Ltd., Coimbatore for clinical studies.
  - Dr. S. Senthil Kumar, Department of Biotechnology has collaboration with Dr. S.P. Govindwar, Professor and Head, Dept. of Biochem., Shivaji University, Kolhapur.
  - Dr. A.T. Ravichandran, Associate Professor, Department of Physics, has collaborative research with Dr. K. Dhanabalan, IGCAR, on Thin Film Studies, Dr. A. Robert Xavier, CECRI on Nano materials and Dr. M.S. Ramaiah Institute of Technology, Bangalore on Nano material Synthesis.
  - Ms Judith Jeyarani, Dept of Physics, has collaborative research with Crystal Growth Centre, SSN College of Engineering on Crystal Growth and Characterization.

- Dr. T.V. Sundar, Associate Professor, Department of Physics, has collaborative research with Dr. Elangovan, Department of Chemistry, BDU on X-ray Crystallography and Dr. Puratchikodi, Anna University, Trichy on Structure of Drug Mali cools.
- Dr. S. Pari, Associate Professor, Department of Physics, has collaborative research with Dr. J. Mathavan, Department of Physics, Loyola College, Chennai on Crystal Growth and Dr. R. Selvaraj, Department of Physics, Adithanar College of Arts and Science, Thiruchendur on Crystal Growth.

- Dr. M. Murali, Associate Professor, Department of Chemistry has collaborative research with
  - ★ Dr. Jan Reedijk, Professor, Laiden Institute of Chemistry on Bioinorganic Chemistry,
  - ★ Dr. Patrick Gamez, ICREA Research Professor, Department of Inorganic Chemistry on Inorganic Chemistry,
  - ★ Dr. P. Selvam, Professor, National Center for Catalysis Research, Indian Institute of Technology, Madras on Heterogenous Catalysis,
  - ★ Dr. Suresh Kumar Rayala, Associate Professor, Department of Biotechnology, Indian Institute of Technology, Madras on Chemical Biology,
  - ★ Dr. R. Murugavel, Professor and Head, Department of Chemistry, Indian Institute of Technology, Bombay on Biomimetic Catalysis and Materials Chemistry and
  - ★ Dr. M. Suresh Kumar, Assistant Professor, Center for Bioinformatics, School of Life Science, Pondicherry University, Pondicherry on Structural Biology.

- Dr. S. Ravi, Associate Professor, Department of Physics has collaborative research with
  - ★ Dr. N. Farzi, Professor, Department of Chemistry, Faculty of Science, Isfahan University, Iran on Studies of Liquid State,
  - ★ Dr. Jamie Amoros, Professor, Department of Fisica Applicada, University of Cantabria, Spain on Studies of Liquid State,
  - ★ Dr. Murugan Ramalingam, Professor Associate Universities, Faculty of Medicine, University of Strasbourg on Anti-Epileptic Drugs,
  - ★ Dr. Murrocho I M, Professor, CICECO, Department of de Quimica,

Universidade de Aveiro, Portugal on Application of Perfluorocarbon Emulsions For Anti Epileptic Studies and

- ★ Dr. N.G. Subramaniam, Scientist, Quantum Semiconductor Research Center, Dongguk University, Korea

- ➢ Dr. V. Renuga, Assistant Professor, Department of Chemistry has collaborative research with
  - ★ Dr. Gangadaran, Associate Professor, Department of Material Science, IISc. Bangalore on Sol-Gel synthesis and Thin Flim formation,
  - ★ Dr. Ramesh Babu, Associate Professor, Department of Physics, Bharathidasan University, Trichy on Thin Film formation and
  - ★ Dr. R. Renganathan, Professor, Department of Physics, Bharathidasan University, Trichy on Disensitized Solar Cell preparation.

- ➢ Dr. D. Saravanan, Associate Professor, Department of Chemistry has collaborative research with
  - ★ Dr. R. M. Jugade, Department of Chemistry, RTM Nagpur University, Nagpur on Photochemistry,
  - ★ Dr. Marappan Velusamy, Asso. Professor, Department of Chemistry, North Eastern Hill University, Meghalaya on Photochemistry and Thin Flims,
  - ★ Dr. Balin Kumar Bhuyan, HOD, Chemistry, Associate Professor at Nowgong College Nagaon · Cotton College, Guwahati Nagaon on Photochemistry and Thin Flims,
  - ★ Dr. M. Vasanthy, Assistant Professor, Department of Environmental Biotechnology, School of Environmental sciences, Bharathidasan University, Trichy on Photochemistry,
  - ★ Dr. Manoharan Mariappan, Assistant Professor of Chemistry, School of Science, Engineering and Mathematics, Bethune-Cookman University, USA on Photochemistry, Muhammad Aqeel Ashraf, Ph.D., Department of Chemistry, Faculty of Science, University of Malaya 50603 KL, Malaysia on Photochemistry and
  - ★ Dr. Jon Marsh, Research Associate Professor, Washington University, Dept of cardiovascular Unit, St.Louis, Washington, on Application of Ultrasonics in medicine.

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

Researchers of eminence are invited to deliver special lectures, plenary lectures, invited-talks and to interact with staff and students during National and International Workshop/Seminars/Symposium/Conference etc. The details of visits by eminent researchers for such activities is given in the previous chapter.

3.1.7 What percentage of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

There is no provision for sabbatical leave in Colleges of Tamil Nadu. However, Staff members are permitted to go to institutions under FDP for doing Ph.D. Programme. Staff members are also allowed to go **on lien** to other institutions inside and outside the Country for research.

3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events.

The complete list of seminars/workshops/conferences organized during the last four years has already been given in the previous chapter.

The list of eminent Scientists/scholars who participated in the Seminars/workshop/conference/Endowment lecture is given below.

* Dr. C. Rengarajan, Chairman, Economic Advisory Council to the Prime Minister of India delivered a lecture on **Challenges before Indian Economy** on 22.01.2011.
* Padmashri Dr. S. Krishnasamy, delivered a lecture on **Culture and Politics** on 10.12.2011.
* Mr. K. Srikanth, Chairman, BCCI, Selection Committee inaugurated a National Conference on 28.07.2012.
* Dr. D.P. Bhatt, Head, IPRM, National Physical Laboratory inaugurated NCIF on 18.02.2013.
* Dr. Dinesh Kumar Bharadwa, Deputy Director, Food and Drug Toxicology Research Centre (FDTRC), National Institute of Nutrition (NIN), Hyderabad delivered a lecture Toxicology on 14.03.2013.
* Mr. T.S.R. Subramaniam, Former Cabinet Secretary delivered the Rajaji Memorial Endowment lecture on Current Issues in Governance on 10.12.2012.
* Dr. K. Kasthurirangan, Former Chairman ISRO, spoke on remote sensing from Space-A

New dimension to Light and Radiation on 01.03.2013.

- Mrs. Sasikumar, Chairman, Asian College of Journalism spoke on Reality and Representation in a Mediatised World on 13.03.2013.
- Mr. Swaminathan S. Aiyer, The Consulting Editor, The Economic Times delivered a lecture on Political Economy-Its Challenges facing India on 12.08.2013.
- Dr. S.V. Raghavan, Scientific Secretary, Office of Principal Scientific Advisor to the Government of India, New Delhi delivered a speech on Connected India on 20.09.2013.
- Mr. N. Ram, Chairman, The Hindu delivered a lecture on Relevance of Rajaji's Thought in the Present day Politics on 10.12.2013.
- Dr. Y.S. Rajan, Professor, Indian Institute of Science, Bangalore spoke on Science, Engineering, Industry and Markets on 28.02.2014.
- Governor of Tamil Nadu Mr. K. Rosaiah was the Chief Guest for a Conference on 30.08.2014.
- Arjuna Awardee and Former Captain of Indian Cricket Mr. Bishan Singh Bedi inaugurated a Conference on 29.08.2014.
- Dr. M.S. Ananth, Director, Indian Institute of Technology Chennai delivered a lecture on the Changing Paradigms of Education on 28.02.2015.
- Dr. R. Chidambaram, Chairman Department of Atomic Energy/Principal Scientific Advisor to the Govt. of India delivered a lecture on "To Become a Knowledge Economy" on 12.11.2015.

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land).

Lab to Land projects

- Dr. M.S. Mohamed Jaabir, Associate Professor, Department of Biotechnology transferred Stem cell Therapeutics Culture Technique to the Medical Fraternity in Trichy. Dr. P. Ramachandran, Plastic Surgeon, Trichy, is being supported by the technique.
- Atlas of Coastal Geomorphology of Tamil Nadu prepared by Dr. K. Anbarasu, Principal has been provided as a base map for all Coastal Area Researchers.
- A project on Interlinking Rivers being funded by the College will help the Planning Board of Govt. of Tamil Nadu in the policy decision of linking of rivers in Tamilnadu.

- Dr. S. Senthil Kumar, Associate Professor, Department of Biotechnology has transferred the technique of his Degradation of Textile effluents for Industrial Application to industries around Tirupur.

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

70 Staff Members have been recognized by Bharathidasan University to guide students for Ph.D. Degree (**Annexure 3.1**) and 76 have been recognized as M.Phil. Guides (**Annexure 3.2**).

85 Ph.D. and 317 M.Phil. Degrees have been awarded in the last four years. **(See Annexure 3.3 and 3.4)** There are 20 Ph.D. and 149 M.Phil. Scholars during the current academic year (**Annexure 3.5 and 3.6**).

12 Staff members received grants from various funding agencies for conducting major projects (**see Annexure 3.7**).

466 Research papers have been published by staff and scholars of the College during the last four years**. (See Annexure 3.8)**

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

About 20-25% of budget is earmarked for research. The details of expenditure for the last four years is given below.

2011-2012 : Rs. 54,37,009
2012-2013 : RS. 1,26,41,595
2013-2014 : Rs. 89,87,805
2014-2015 : Rs. 110,66,592

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

- All the PG students do an individual project work as part of the curriculum. They are permitted to use laboratory, equipments, Chemical and Glass ware free of cost for the project work.

- 50 % concession is given to all the PG students when they use sophisticated equipments in the NCIF.
- When PG students submit proposals to TNSCST seeking grants, the stationary and printing are provided by the College free of cost.

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

No. There is no provision in the institution to provide seed money to the faculty for research. However, access to research laboratories with equipment and gadgets is provided to the researchers, so that they can start up their preliminary bench work and use the data or publication and for writing further research proposals to seek funds from funding agencies such as DST, DBT and UGC.

- In the Department of Chemistry, the instruments like Fluorescence Spectrophotometer and Geldoc were provided to the use of Dr. M. Murali and his student Ms. S. Sangeetha to support the research in the preparation of Anti-Cancer molecules.

- A separate Research laboratory has been established to support Dr. V. Renuga, Associate Professor in the Department of Chemistry. Equipments like Spin Coater and Muffle Pharnus were provided to her to support her research.

- Crystal growth Laboratory has been established in the Department of Physics to support Dr. A.T. Ravichandran and Dr. S. Pari on their research.

- A separate Computer Laboratory has been provided to each one of Botany, Chemistry, Geology, Physics and Mathematics departments.

- Plant Tissue Culture and Animal Tissue Culture facilities have been established in the Department of Biotechnology to support the Research. All types of Fermentors have been procured to promote research in the field of Fermentation technique.

- Class 1000 clean Cabinet has been established in the Department of Biotechnology for Animal Tissue Culture Studies.

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

No patents has been obtained so far by the faculty. However, awareness on patent and property rights has been created through seminars and interaction with eminent personalities who visit the campus. IPR has been introduced in curriculum to make both staff and students aware of its importance.

A few research projects that are in progress in campus are expected to lead to patent filing. They are listed below.

Process Patent: Original research contributing to product improvement

Dye Effluent Treatment

Dr. S. Senthil Kumar, Associate Professor, Department of Biotechnology has completed his study on the Textile Dye Effluent Waste Water Treatment using novel bacterial isolates. His technology of treating the effluent by two alternate methods will enhance and revolutionize the way the textile effluent is treated by conventional process.

Mesenchymal Stem Cell isolation

Mesenchymal stem cells are significant cells that are in trials for stem cell therapy in case of illnesses like Ischemic Limb, terminally-ill liver diseases, dementia etc. Team of researchers of Biotechnology department and TMCH, Trichy, collaborate to standardise the method of isolation and expansion of mesenchymal stem cells in the laboratory. This will improve the services of stem cell therapy for patients in near future.

Product patent: Novel Anti-epileptic Drug

Dr. S. Ravi, Associate Professor, Department of Physics, National College, Trichy, has successfully synthesized a novel Anti-epileptic drug and has completed the characterization studies on it. The lead molecule is believed to become a potent drug in the near future after further study.

3.2.5 Provide the following details of ongoing research projects:

	Year wise	Number	Name of the Project	Name of the Funding Agency/Industry	Total Grant Received
A. College funded					
Minor projects	---	---	---	---	---
Major projects	---	---	---	---	---
Along with Industry	---	---	---	---	---
B. Other agencies – national and international (specify)					
Minor Projects	2013-2015	01	Synthesis and Characterization of Biologically Active Heterocyclic Compounds.	UGC	3,05,000
Major Projects	2015-2016	01	Geobiotechnological Study of Quaternary Sea level changes along the waste of Tamil Nadu using Sedimentological, Micropaleontological & Microbiological indicators.	MoES	44,50,000
	2015-2016	01	Strategic approach to re-use biologically degraded and photo-catalytically treated textile wastewater for crop irrigation to encourage water use efficiency in the textile valley of Tamil Nadu	UGC	13,85,000
	2015-2016	01	A Molecular investigation on the onset of Attention Deficit / Hyperactivity Disorder in the maternal micronutrient deficient offspring	UGC	15,86,000
	2015-2016	01	Improving hepatic differentiation of Mesenchymal stem cells by co-culture with Endothelial cells	SERB-DST	32,85,000
	2015-2016	01	Validation, safety and efficiency of soil associated microbes from Kolli hills for the management of Microbiology.	UGC	16,82,500

	2013-2014	01	Characterization of bioactive and biochemical constituents in some wild edible fruits of Eastern Ghats, Tamil Nadu	SERB-DST	7,99,667
C. Industry Sponsored	2015-2016	01	Field Investigations for shore line management project along the coastal stretch between Poovar and Thuthukudi, Tamil Nadu coast	NIOT	22,00,000

3.2.6 How many departments of the College have been recognized for their research activities by national / international agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

13 departments have been recognized as research centre by Bharathidasan University for conduct of research programmes such as M.Phil. and Ph.D. **(See Annexure 3.9).**

Following is the list of recognition received from various agencies in the last four years.

- UGC has recognized the College as **College with Potential for Excellence** and sanctioned Rs. 1,50,00,000/-
- DST has recognized the College for **FIST** support and sanctioned a sum of Rs. 70,00,000/- under the scheme.

Major Breakthrough

1) DST-FIST and UGC-CPE grants have truly helped to change the total research atmosphere in the College through the establishment of an exclusive high-end Instrumentation Facility called National College Instrumentation Facility (NCIF) to support the researchers of all the Science departments. The center has the following analytical equipment at this facility.
    - Scanning Electron Microscope (SEM)
    - Atomic Absorption Spectro Photo Meter (AAS)
    - Gas Chromatography-Mass Spectrophotometry (GC-MS)
    - High Pressure Liquid Chromatography (HPLC)
    - Flow Cytometer
    - Gel documentation System
    - Fluorescence Spectrophotometry

- FT-IR
- UV Spectrophotometry
- Micro Hardness Tester
- Millipore water purification system

2) The following Research facilities have been established in various departments.
   - Remote Sensing and GIS laboratory in the Department of Geology.
   - Plant Tissue Culture Laboratory in the Department of Botany.
   - Crystal Growth Laboratory in the Department of Physics
   - Nano Particle Laboratory in the Department of Chemistry
   - Statistical software Package for Department of Economics
   - Animal Tissue Culture facility, Fermentors, Class 1,000 cabinet in the Department of Biotechnology.
   - Research Laboratory for the Department of Zoology.

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/ National/International agencies).

The following table presents the details of projects obtained and completed in the past four years,

Duration	Name of the Faculty, Department & Designation	Title of the project	Funding agency/ Status	Project Amount
Major Projects				
2012-2017	Dr. A.T. Ravichandran Dept. of Physics, Associate Professor	Bulk growth of Triglycine sulphate (TGS) and Potassium acid Phthalate (KAP) single crystals for device fabrication	UGC	12,26,400
2012-2015	Dr. S. Ravi Dept. of Physics, Associate Professor	Experimental and theoretical characterized of specific Nano drug delivering fluorocarbon emulsions using ultrasound	DRDO	15,00,000
2012-2018	Dr. S.P. Anand Dept. of Botany, Associate Professor	Enumeration of medicinal plants from Boda hill, Namakkal District of Tamil Nadu and Tissue culture antimicrobial and Phytochemical studies on some high value therapeutic plants	UGC	8,41,800

2012-2015	Dr. V. Nandagopalan Dept. of Botany, Associate Professor	Histochemical approach for the screening and enhancement of secondary metabolites in selected medicinal plants	UGC	12,22,000
2011-2014	Dr.S.Senthil Kumar Dept. of Biotechnology Associate Professor	Two stage treatment of textile effluent	SERC-DST	25,00,000
Minor Projects				
2011-2012	Dr. V. Renuga Dept. of Chemistry Assistant Professor	Growth, Crystal defects and Biological study of various Amino-Acid-metal sulfates and oxides crystals.	UGC	1,65,000
2011-2012	Prof. K. Elango Dept. of Economics Associate Professor	Women Empowerment through Micro Finance	UGC	50,000
2011-2012	Dr. S. Thirumaran Dept. of Economics Associate Professor	A study on Rural Development through industrial Entrepreneurship in Trichy District	UGC	60,000
2011-2012	Dr. R. Subramanian Dept. of Economics Associate Professor	A study on Rural Development through Women's Self Help Groups and Micro Finance in Trichy District	UGC	60,000
2011-2012	Dr. R. Ravichandran Dept. of Tamil Associate Professor	நீலகிரி மாவட்ட தொதவர் இன மக்களின் வாழ்வியல் சடங்குகளும் நம்பிக்கைகளும்	UGC	1,00,000
2013-2014	Dr. D. Prasanna Balaji Dept. of Physical Education Associate Professor	Development of Sports among the rural youth in Tiruchirapalli District Tamil Nadu	UGC	2,45,000
2013-2014	Dr. T. Suthakar Dept. of Economics Assistant Professor	A Study on the cattle Farming in Tiruchirapalli District	UGC	1,70,000

3.3 Research Facilities

3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

Rs.3,14,04,408/- has been spent for the purchase of Research equipments in the last four years utilizing the funds from DST-FIST, UGC-CPE and other resources.

- The College has established an exclusive high-end Instrumentation Facility called National College Instrumentation Facility (NCIF) to support the researchers of all the Science departments.

- Remote Sensing and Geographical Information System (GIS) laboratory has been established in the Department of Geology as a Research facility. Computers, RTKGPS and software's at a cost of Rs. 35,00,000/- lakhs have been provided.
- Through UGC's Innovative Programme, Lab-scale fermentor/Bioreactor of all the major models (Stirred-tank, photo-bioreactor, Fluidized Bed Reactor and Air-lift bioreactor) have been established and made available for experimental studies exclusive to Bioprocess Technology.
- Class 1000 Clean room facility has been established for studies in Animal Cell Culture. This facility also includes laminar air-flow bench, CO_2 incubator, Inverted-Phase Contrast Microscope and other allied equipment for works related to stem cell culture, cancer biology and toxicology studies.
- Most of the departments have been provided with a separate 'Research Space' for pursuing their research for M.Phil. or Ph.D. Reading rooms / cabins are provided for the research-faculty to provide private place for their research.
- College provides Wi-Fi connectivity for all the members of staff, scholars and students.
- Staff members and research scholars have been assigned an access code to make use of the data resources through N-LIST, INFLIBNET and Delnet.

Strategies evolved to meet research demands

- Staff members and scholars of the Science departments are permitted to use all the high end analytical equipment available at the National College Instrumentation Facility (NCIF) at subsidized service charges. There is a registry to monitor the use of every equipment at the facility and maintain the working condition of all the instruments.

3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.

Yes.

- There is a separate section for the thesis collection in the library
- Wired and WiFi connectivity within the library premises
- Back-volumes of Journals subscribed relevant to research areas in the College
- Several volumes of books, references pertaining to research methodology, statistical analysis and its tools and techniques are available for the scholars
- Access to e-resources and online journals through N-LIST/INFLIBNET/DELNET.

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

Yes, College provides residential facilities for research scholars and faculty. Research scholars are given priority in the occupancy of rooms in the College hostel and provided with adequate freedom and flexibility to work in laboratory irrespective of holidays and working hours. They are given free WiFi connectivity to pursue their research without any hindrance. They are permitted to use laboratories 24X7. Working hours for library has been extended up to 8.00 p.m.

3.3.4 Does the College have a specialized research centre / workstation to address challenges of research programmes? If yes, give details.

Yes.

- An exclusive research facility called National College Instrumentation Facility (NCIF) with advanced Analytical Equipment has been established in the year 2012 in the Science Block. The equipment under this NCIF are given in **Annexure 3.10**
- Animal House and Plant Tissue Culture laboratories are common facilities in the Department of Biotechnology.
- Class 1000 Clean Room Facility for contamination-free cell culture in the Department of Biotechnology.
- Molecular / Microbiology, Biochemistry and fully Automated Computer interfaced - Stirred Tank Bioreactors (3 & 5 litres) Facility in the Department of Biotechnology.
- Crystal Growth Laboratory has been established in the Department of Physics.
- Nano Particle Research Laboratory has been established in the Department of Chemistry.
- Remote Sensing and GIS Laboratory has been established in the Department of Geology.

3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Yes.

- NCIF and other facilities in the College are made available for use of students / Scholars/ Faculty of other institutions as well for MSc, M.Phil., or Ph.D. projects, Major / Minor projects

- Procedure for making use of the facility at National College has been simplified and described in the College website along with the provision of forms for the submission of samples for analysis.
- A full-time technician has been appointed for serving the needs to process the sample and produce results for those who request for sample analysis. Technician is also responsible for day-today maintenance of all the equipment at NCIF.
- Rs. 29,13,814/- has been generated through NCIF for analysing samples in the last four years.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the College through the following:

- **major papers presented in regional, national and international conferences**

355 papers have been presented by staff and scholars in regional, national and international conferences **(Annexure 3.11)**

- **publication per faculty**

466 Research papers have been published by faculty and scholars during the last four years. **See Annexure 3.8**. Publication per faculty is 07 during the last four years.

- **faculty serving on the editorial boards of national and international journals**

12 Teachers are serving in the Editorial Board of various journals.

- **faculty members on the organization committees of international conferences, recognized by reputed organizations / societies.**

15 teachers have served as members of the organizing committee of international conferences, recognized by reputed organizations / societies.

3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

Yes. PG and Research Department of Physical Education and Sports Science of the College publishes a Research Journal in the name of International Research Journal on Health, Fitness and Sports Sciences. The ISSN number is 2320-5202.

3.4.3 Give details of publications by the faculty:

- **number of papers published in peer reviewed journals (national / international)**

466 papers have been published by staff and scholars in the last four years in peer reviewed journals. **(See Annexure 3.8)**

- **Monographs**

  A monograph on Coastal Geomorphology entitled "Atlas of Coastal Geomorphology of Tamil Nadu" has been prepared by the Department of Geology.

  A monograph on Herbal Plants of Kolli Hills has been prepared by Dr. S.P. Anand, Department of Botany.

- **Chapters in Books**

20 staff members have written chapters in books and 15 staff members have also written course materials for distance education courses offered in various Universities of Tamil Nadu. **(See Annexure 3.12)**

- **Editing Books**

  08 books have been edited by staff of the College. **(See Annexure 3.12)**

- **Books with ISBN numbers with details of publishers**

  29 Books have been published by staff of the College**. (See Annexure 3.12)**

- **number listed in International Database**

  250 publications have been listed in International Database.

- **Citation Index – range / average**

  The average Citation Index of staff members 1-352

- **SNIP**

  Not known

- **SJR**

  Not known

- **Impact factor – range / average**

  The average Impact Factor of publication is 0.25 - 4.5

- **h-index**

  The average h-index of publication is 1-2

3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.

The average number of M.Phil. scholars guided per faculty is 4 and Ph.D. scholar per faculty is 0.5

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

As the Ph.D. thesis evaluation is done by the affiliating University, the role of

College in checking malpractice and misconduct does not arise. However the guidelines of Bharathidasan University for Ph.D. programme are strictly followed in the College.

All the students of M.Phil. programme have to attend classes for theory courses in the first semester. The framing of syllabus, award of Continuous Internal Assessment Marks and conduct of End semester examinations are carried out by the College. The students have to do a project in the second semester under the guidance of a staff. Guides ensure that there is no misconduct or malpractice in the research work.

3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.

Geo-Biotechnology

Dr. K. Anbarasu, Department of Geology and Dr. S. Senthil Kumar, Department of Biotechnology jointly conduct a Research Programme to understand the sea level changes along the coast of Tamil Nadu during recent past. The programme is funded by the Ministry of Earth Science (MoES).

Cancer Biology - Department of Chemistry & Biotechnology

Dr. M. Murali, Assistant Professor, Department of Chemistry and Dr. M.S. Mohamed Jaabir, Associate Professor, Department of Biotechnology collaborate for the Synthesis and evaluation of Anti-cancer drugs.

Anti-Epileptic drug – Department of Physics and Biotechnology

Dr. S. Ravi, Associate Professor, Department of Physics and Dr. M.S. Mohamed Jaabir, Department of Biotechnology collaborate for testing the biological efficacy of the novel drug synthesized for anti-epileptic property.

Market Survey: Joint project of Department of Commerce and Economics.

The Department of Commerce and Economics conduct survey jointly on Investors' preferences towards investments.

- **Collaboration with national/international institutes / industries.**
  - The Department of Geology has a collaborative research with IIESR, Calcutta for OSL dating for Geological samples.
  - Dr. M.S. Mohamed Jaabir, Associate Professor, Department of Biotechnology has a collaborative research with Dr. Sagar Sengupta, Scientist, National Institute of Immunology, New Delhi.

- The Department of Biotechnology has collaboration with Consortium Clinical Research private Ltd., Coimbatore for clinical studies.
- Dr. S. Senthil Kumar, Department of Biotechnology has collaboration with Dr. S.P. Govindwar, Professor and Head, Department of Biochemistry, Shivaji University, Kolhabur.
- Dr. A.T. Ravichandran, Associate Professor, Department of Physics, has collaborative research with Dr. K. Dhanabalan, IGCAR, on Thin Film Studies, Dr. A. Robert Xavier, CECRI on Nano materials and Dr. M.S. Ramaiah Institute of Technology, Bangalore on Nano material Synthesis.
- Ms. Judith Jeyarani, Department of Physics, has collaborative research with Crystal Growth Centre, SSN College of Engineering on Crystal Growth and Characterization.
- Dr. T.V. Sundar, Associate Professor, Department of Physics, has collaborative research with Dr. Elangovan, Department of Chemistry, BDU on X-ray Crystallography and Dr. Puratchikodi, Anna University, Trichy on Structure of Drug Mali cools.
- Dr. S. Pari, Associate Professor, Department of Physics, has collaborative research with Dr. J. Mathavan, Department of Physics, Loyola College, Chennai on Crystal Growth and Dr. R. Selvaraj, Department of Physics, Adithanar College of Arts and Science, Thiruchendur on Crystal Growth.
- Dr. M. Murali, Associate Professor, Department of Chemistry has collaborative research with
    - ★ Dr. Jan Reedijk, Professor, Laiden Institute of Chemistry on Bioinorganic Chemistry,
    - ★ Dr. Patrick Gamez, ICREA Research Professor, Department of Inorganic Chemistry on Inorganic Chemistry,
    - ★ Dr. P. Selvam, Professor, National Center for Catalysis Research, Indian Institute of Technology, Madras on Heterogenous Catalysis,
    - ★ Dr. Suresh Kumar Rayala, Associate Professor, Department of Biotechnology, Indian Institute of Technology, Madras on Chemical Biology,
    - ★ Dr. R. Murugavel, Professor and Head, Department of Chemistry, Indian Institute of Technology, Bombay on Biomimetic Catalysis and Materials Chemistry and

- ★ Dr. M. Suresh Kumar, Assistant Professor, Center for Bioinformatics, School of Life Science, Pondicherry University, Pondicherry on Structural Biology.

- Dr. S. Ravi, Associate Professor, Department of Physics has collaborative research with
  - ★ Dr. N. Farzi, Professor, Department of Chemistry, Faculty of Science, Isfahan University, Iran on Studies of Liquid State,
  - ★ Dr. Jamie Amoros, Professor, Department of Fisica Applicada, University of Cantabria, Spain on Studies of Liquid State,
  - ★ Dr. Murugan Ramalingam, Professor Associate Universities, Faculty of Medicine, University of Strasbourg on Anti-Epileptic Drugs,
  - ★ Dr. Murrocho I M, Professor, CICECO, Department of de Quimica, Universidade de Aveiro, Portugal on Application of Perfluorocarbon Emulsions For Anti Epileptic Studies and
  - ★ Dr. N.G. Subramaniam, Scientist, Quantum Semiconductor Research Center, Dongguk University, Korea on suggestions in preparing the emulsions but have not been directly involved. He has reviewed many of my manuscripts / thesis.
- Dr. V. Renuga, Assistant Professor, Department of Chemistry has collaborative research with
  - ★ Dr. Gangadaran, Associate Professor, Department of Material Science, IISc. Bangalore on Sol-Gel synthesis and Thin Flim formation,
  - ★ Dr. Ramesh Babu, Associate Professor, Department of Physics, Bharathidasan University, Trichy on Thin Film formation and
  - ★ Dr. R. Renganathan, Professor, Department of Physics, Bharathidasan University, Trichy on Disensitized Solar Cell preparation.
- Dr. D. Saravanan, Associate Professor, Department of Chemistry has collaborative research with
  - ★ Dr. R. M. Jugade, Department of Chemistry, RTM Nagpur University, Nagpur on Photochemistry,
  - ★ Dr. Marappan Velusamy, Associate Professor, Department of Chemistry, North Eastern Hill University, Meghalaya on Photochemistry and Thin Flims,
  - ★ Dr. Balin Kumar Bhuyan, HOD, Chemistry, Associate Professor at Nowgong College Nagaon · Cotton College, Guwahati Nagaon on

Photochemistry and Thin Flims,

- ★ Dr. M. Vasanthy, Assistant Professor, Department of Environmental Biotechnology, School of Environmental sciences, Bharathidasan University, Trichy on Photochemistry,
- ★ Dr. Manoharan Mariappan, Assistant Professor of Chemistry, School of Science, Engineering and Mathematics, Bethune-Cookman University, USA on Photochemistry, Muhammad Aqeel Ashraf, Ph.D., Department of Chemistry, Faculty of Science, University of Malaya 50603 KL, Malaysia on Photochemistry and
- ★ Dr. Jon Marsh, Research Associate Professor, Washington University, Department of cardiovascular Unit, St.Louis, Washington on Application of Ultrasonics in medicine.

3.4.7 Mention the research awards instituted by the College.

FRIP has been introduced in the College to promote Research. The details of cash awards given to staff during the last four years has been provided in previous chapter.

3.4.8 Provide details of

∗ **Research awards received by the faculty**

1. Prof. K. Srinivasan, Dept. of English was awarded the Best Paper award for his paper entitled "**Dance of Muruga"** presented in International Conference on World Murugabaktha held in the Department of Indian Studies, University of Malaya, Malaysia.
2. Dr. S. Senthil Kumar, Asst. Prof., Department of Biotechnology was awarded the Best Paper Award for his paper entitled "**Biological treatment of textile wastewater and its re-use in irrigation: Encouraging water efficiency and sustainable development"** presented in the Second International Conference on Water Resources and Environmental Management: Water, Food Energy Security and Climate Change held at Geneva, Switzerland during9- 11, April 2013.
3. Ms. Sangeetha, Asst. Prof., Dept. of Chemistry was awarded the Best Paper Award for her Paper entitled "**DNA and Protein Binding, DNA Cleavage and Cytotoxic Activity of Square-Planner [Cu^{II}(quinmol)CI] Complex"** presented in a Seminar held at Banaras Hindu University, Varanasi on 1 – 3, February 2013.
4. Dr. S. Senthil Kumar, Assistant Professor, Department of Biotechnology, has been selected for the award of **Young Scientist Fellowship** for the year 2014-2015 by

Tamil Nadu State Council for Science and Technology, Chennai. Under the scheme he is eligible to work in any National Institute for two months with a Fellowship and TA & DA

5. Ms. S. Shantkriti, Assistant Professor, Department of Biotechnology received best paper award for her Paper entitled "**Coelomic fluid of Earthworm: A potent mosquito larvicide"** in National conference on Environmental Issues an Challenges Vision 2020 held at Annamalai University, Chidambaram (27^{th} & 28^{th} Sept, 2013)
6. Ms. S. Shantkriti, Assistant Professor, Department of Biotechnology received best paper award for her Paper entitled "***In-silico* approach for decolorization of textile azo dyes"** in the National conference on Mathematical Modeling in Molecular Cell Biology held at Bon Secours College for Women, Thanjavur (3^{rd} & 4^{th} March, 2014)
7. Dr. T. Sridhar, Associate Professor, Department of Economics was presented best paper award in International Conference on "**Advance Management Challenges in Knowledge Era"** held in Jamal Institute of Management (ICAM) 2016) in 8^{th} & 9^{th} January, 2015.
8. Dr. S.P. Anand, Dept. of Botany received **Young Scientist Award from DST-SERB** with the Research project on "Characterization of Bioactive and biochemical constituents in some wild edible fruits of Eastern Ghats, Tamil Nadu".
9. Dr. S. Shankaramanivel, Dept. of Biotechnology received **Young Scientist project from DST** with the Research project on Improving hepatic differentiation of Mesenchymal stem cells by co-culture with endothelial cells.

- **Recognition received by the faculty from reputed professional bodies and agencies**

1. The prestigious Best Teacher Award – 2011 instituted by Chemical Research Society of India (CRSI) was conferred on Dr. M. Murali, Associate Professor, Department of Chemistry during the Annual Conference of CSIR- held in National Institute for Interdisciplinary Science and Technology, Trivandrum, India on February 5, 2012.
2. Youth Red Cross society of our College has been adjudged as the best performing unit among the colleges affiliated to Bharathidasan University. The Award for the same was presented by Dr. V.M. Muthukumar, Vice-Chancellor, Bharathidasan University, Tiruchirapalli in a function held on 16.02.2016 and received by Dr. S. Senthil Kumar, Co-ordinator, YRC.

3. Dr. N. Renganayaki, Assistant Professor, Department of Economics received **Best Teacher Award** Chennai Grabs Educational Trust in a Special lecture on Professional Ethics during 1st November, 2015.(not clear)
4. Dr. D. Saravanan, Assistant Professor, Department of Chemistry was presented – **Best Citizen of India Gold Medal Award of excellence** by Global Economic Progress & Research Association (GEPRA) New Delhi on the occasion of 32nd National Unity Conference on Individual achievements and National Development held on 26th January, 2016 at Bengaluru.
5. Dr. A.T. Ravichandran, Associate Professor, Department of Physics received **Best Organizer Award** from Department of Atomic Energy Diamond Jubilee for organizing the state level Quiz competition during 14th & 15th July, 2015
6. முனைவர். M. மாணிக்கம், தமிழ்த்துறை பேராசிரியர், **நற்றமிழ் நாயகன் விருது** திருமுறை மன்றம் (திருமுறை வைப்பு) - 12 ஆகஸ்ட், 2014
7. Dr. R. Elavarasu, Head and Associate Professor, Department of English received **பேரறிஞர் அண்ணா விருது** செம்மொழி தமிழாய்வு பன்னாட்டு மன்றம், காரைக்கால் special lecture on பேரறிஞர் அண்ணா சிறுகதைகளில் சமுதாய விழிப்புணர்வு held on 14 December, 2014
8. Dr. R. Elavarasu, Head and Associate Professor, Department of English received **செந்தமிழ் கோ விருது** அந்தமான் தமிழர் சங்கம், special lecture on கம்பன் கண்ட தம்பிமார்கள் 29 April, 2012
9. Dr. R. Elavarasu, Head and Associate Professor, Department of English received **தமிழ் மாமணி விருது** தமிழய்யா கல்வி கழகம், கோவா special lecture on Translation of Tirukkural 29 December, 2013.

3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

FRIP has been introduced in the College to promote Research. The details of cash awards given to staff during the last four years has already been provided in the previous chapter.

3.5 Consultancy

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

Consultancy services are offered by various Science departments for the problems related to Agricultural, Pharmaceutical, Chemical and Mineral Based industries. The details of consultancy undertaken by the College are given below.

- Dr. M.S. Mohamed Jaabir, Associate Professor, Department of Biotechnology transferred Stem cell Therapeutics Culture Technique to the Medical Fraternity in Trichy. Dr. P. Ramachandran, Plastic Surgeon, Trichy, is being supported by the technique.
- Atlas of Coastal Geomorphology of Tamil Nadu prepared by Dr. K. Anbarasu, Principal has been provided as a base map for all Coastal Area Researchers.
- A project on Interlinking Rivers being funded by the College will help the Planning Board of Govt. of Tamil Nadu in the policy decision of linking of rivers in Tamilnadu.
- Dr. S. Senthil Kumar, Associate Professor, Department of Biotechnology has transferred the technique of his Degradation of Textile effluents for Industrial Application to textile units around Tirupur.

3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?

No. But the College has collaboration with industrial units. College Industry cell will be started from the academic year 2016-17.

- The College has partnership with BHELSIA, BHEL, Trichy, Consortium Clinical Research Organization, Coimbatore, and Dinamalar, Trichy for offering employment oriented Diploma and Certificate programmes.
- College is also an official member of CII. Besides the experts in the Governing council, the officials of CII, provide valuable advice on all the issues pertaining to Industry involvement and consultancy.

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

- The College releases a press report about the consultancy services offered by the College whenever it receives order for consultancy.
- Circulars are sent to other Colleges and other Stack holders.

Consultancy expertise is available in the College in the following major areas.

- The College has a Center for Rural Technology. The Center conducts number of programmes for the farmers of the region. Consultancy services on Horticulture and Floriculture is offered by the Department of Botany to the Home makers of the City.
- Consultancy services on Mushroom cultivation and vermiculture are offered to farmers of the region by the Department of Botany.
- Dr. D. Srinivasan and Dr. V. Subramanian, Department of Geology are offering Ground Water Consultancy services to the Agriculturists and Industrialists.
- Dr. S. Selvaraj, Department of Geology is offering consultancy for estimation of Mineral resources in the Coastal and River Sands.
- Dr. S. Senthil Kumar, Department of Biotechnology is offering consultancy for Bioremediation of Textile effluents.
- Dr. M.S. Mohamed Jaabir, Department of Biotechnology is offering consultancy for Plastic surgeons on Stem cell culture.
- Dr. M. Gnanadesigan, Department of Biotechnology is offering consultancy for Poultry industry.

3.5.4 How does the College encourage the faculty to utilise the expertise for consultancy services?

- Faculty experts who serve as consultants are eligible to get the entire income generated if resources and infrastructure facility of the College are not made use of.
- Faculty experts who serve as consultants may claim 60% of the income generated if the facility of the college is also utilized.
- Consultant faculty is allowed to avail permission and adjustments in regular work schedule with prior notice and alternative arrangements.
- Consultant faculty is awarded with cash prize on the last working day / College Annual Day for the noteworthy services rendered.
- College annual reports, Bulletins and magazines highlight the consultancy assignments undertaken by the faculty.

3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

Consultancy expertise are available in the College in the following major areas.

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- The College has a Center for Rural Technology. The Center conducts number of

programmes for the farmers of the region. Consultancy services on Horticulture and Floriculture is offered by the Department of Botany to the Home makers of the City.

- Consultancy services on Mushroom cultivation and vermiculture are offered to farmers of the region by the Department of Botany.
- Dr. D. Srinivasan and Dr. V. Subramanian, Department of Geology are offering Ground Water Consultancy services to the Agriculturists and Industrialists.
- Dr. S. Selvaraj, Department of Geology is offering consultancy for estimation of Mineral resources in the Coastal and River Sands.
- Dr. S. Senthil Kumar, Department of Biotechnology is offering consultancy for Bioremediation of Textile effluents.
- Dr. M.S. Mohamed Jaabir, Department of Biotechnology is offering consultancy for Plastic surgeons on Stem cell culture.
- Dr. M. Gnanadesigan, Department of Biotechnology is offering consultancy for Poultry industry.
- National College Instrumentation Facility is a major resource for Income generation through consultancy services. High-end analytical equipment of the facility is used in the sample analysis for scholars, staff and industry. Co-ordinator and technician have been appointed to monitor the division. Income generated through NCIF every year is given below.

Facility	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
NCIF	---	---	7,01,460	10,15,541	11,96,813
Biotechnology	---	25,000	35,000	30,000	30,000
Geology	---	---	---	---	8,50,000

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

To ensure the involvement of students in extension activities and social responsibilities, enrolment in any one of the Co-curricular activities has been made mandatory in the curriculum as Part V which is awarded 'One' Credit.

Ramanujan Mathematical Society has its head quarters in the College campus. The society conducts weekly outreach programme to the PG students of Mathematics from Colleges around Tiruchirapalli on various topics of Higher Mathematics.

3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?

The College has been working for nearly a century towards the upliftment of the marginalized sections. The staff and students are informed of the role of the College in its pursuit of liberation through education in the first day meeting of freshers. The College handbook clearly lays down the social purpose its stands for and exhorts the stakeholders to play a dynamic role in the fulfillment of its responsibilities. Our institutional responsibilities are discharged effectively by NCC, NSS units and clubs which engaged in social welfare activities.

- Four NSS units of the College adopt four villages that fall out of the corporation limit of Tiruchirapalli. These villages are Iniyanoor, Nachikurichi, Chozhanganallur and Bommanisamuthiram. A special camp is organized for 10 days every year where in volunteers involve themselves in a variety of activities as listed below.
  - Creating awareness about evils of open defecation, plastic usage, chemical fertilizers, and benefits of Rain water harvesting and youth development
  - Volunteers organize several cultural events or competitions everyday evening for the village youth and children.
- Blood donation camp is organized where in students and faculty generously donate blood with coordination from the volunteers of the blood banks in the Trichy city.
- A Blood donors' directory is released every year containing names, addresses, telephone numbers and blood groups of the I UG and I PG students. The directory is distributed to the hospitals around the city for their reference. The directory is a boon to poor patients to identify and approach the donors quickly. A Blood grouping camp is organized by the NCC Air-wing unit before releasing the Blood donors' directory.
- Cycle rally is organized every year on significant and pressing issues like 'save Girl Child', anti-tobacco rally, cancer awareness rally, voters awareness rally and so on.
- Every year NCC Air-wing unit of the College organizes a Free Eye Check up Camp for the benefit of students and staff of the College.
- College had raised funds from students and staff for providing relief during times of natural calamities like that of Jammu Kashmir Flood, Kedrinath flood and Cuddalore flood. Relief materials were distributed to the needy in Cuddalore region.

3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

To ensure the involvement of students in extension activities and socially responsible events, enrolment in one of the club activities has been made mandatory. Extension activities form part of the curriculum and awarded a maximum credit of 1 under Part V.

3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

As a part of the extension activity a group of students conducted an opinion survey on the starting of a bench of the Madras High Court at Madurai. The survey favoured the establishment of the bench at Madurai. The findings report was submitted to the Government of Tamil Nadu. Subsequently, a bench of the Madras High Court was established in Madurai.

3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.

- Youth Red Cross society of our College has been adjudged as the best performing unit among the colleges affiliated to Bharathidasan University. The Award for the same was presented by Dr. V.M. Muthukumar, Vice-Chancellor, Bharathidasan University, Tiruchirapalli in a function held on 16.02.2016 and received by Dr. S. Senthil Kumar, Co-ordinator, YRC.
- Flt. Lt. Dr. R. Sundhararaman was presented with **The Best NCC Officer Award** by நமது முரசு daily.
- Mr. Ryla award was given to Mr. Samsekar, I BBA.,
- Best Co-ordinator Award was given to Ms. R. Thirugnanasoundari, Rotaract Co-ordinator by Rotary Club of Tiruchirapalli.

3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?

The College organizes the following programmes every year. The students who participate in the programmes have an opportunity to acquire skills of leadership and team

building as well as personality development.

- Anti Plastic Awareness Rally
- Anti Tobacco Awareness Rally
- Blood Donation Camps
- Anti Cancer Awareness Rally
- Women Hygiene Programme
- Aids Awareness Programme
- Voter Awareness Programme is conducted on the eve of Assembly and Parliament elections
- These programmes inculcate values and mould the character of the students in a positive manner and facilitate a holistic development of students.

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

Four NSS units of the College have adopted four villages that fall out of the corporation limit of Tiruchirapalli. These villages are Iniyanoor, Nachikurichi, Chozhanganallur and Bommanisamuthiram.

Initiatives of the College to ensure community participation

1. Meeting with the Panchayat Presidents of the respective villages prior to the special camps that last for 10 days
2. Involvement of the local village heads / Panchayat presidents to provide basic provisions and needs such as shelter and personal space for the volunteers
3. Involving village youth and children in all the activities planned in such special camps viz. Awareness about evils of Open Defecation, Plastics, use of chemical fertilizers, rain water harvesting and youth development
4. Undertaking crucial works such as cleaning of schools, temples establishment of water pumps in collaboration with the local youth;
5. Conducting competitions and cultural programs for the village youth and children every day evening during the special camps.

3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Yes, The College has a working system of tracking students' participation, involvement and activities in various social movements.

- Every Undergraduate student is a member of at least one of the bodies of extension activities such as the NCC, NSS, Youth Red Cross, Rotaract, Junior Jaycees, Youth Exnora, Sports, Fine Arts, Red Ribbon, Quiz Club and Yuva.
- All extension activities and engagement programmes of the students are documented by respective clubs and units responsible for the activities. The college involves the NSS programme officer; Youth Red Cross Coordinator to keep track of the community development.
- Above mentioned extension activities are mandatory in the Curriculum as **Part V**, **carrying one Credit**. Every student under the UG Programme is assessed and their performance grade is recorded in consolidated mark sheet.
- The College News Bulletins and College Magazine highlight all the events and activities with details. Reports during College Day function also cover social extension programmes.

3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.

National College through its outreach and extension activities, maintain longterm relationship in the neighbourhood villages such as Iniyanoor, Nachikurichi, Chozhanganallur and Bommanisamuthiram, where services are rendered.

National College and Bishop Heber College, Trichy organize a cycle rally jointly every year on environmental awareness.

All the extension activities in these areas have helped to build good will and sense of bonding with the villagers.

Through co-ordinators of the NSS, College maintain close relations with Village Council, Village Development Board, Village Presidents, Ward members, and co-ordinators in various NGO's like Khajamalai Ladies Association (for Drug De-addiction activities), St. John's Ambulance (First Aid training), Tamil Nadu Forest Department (for Tree sapling plantation projects), Joseph's Eye Hospitals, Trichy; Vasan Eye Care, Trichy(For eye care); Geethanjali Medical Centre, Trichy, (for General Health Check-up). The close rapport with these institutions enables the smooth execution of various social welfare projects and events in selected villages. The projects undertaken with volunteering institutions is given in **Annexure 3.13.**

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

- Youth Red Cross society of our College has been adjudged as the best performing unit among the colleges affiliated to Bharathidasan University. The Award for the same was presented by Dr. V.M. Muthukumar, Vice-Chancellor, Bharathidasan University, Tiruchirapalli in a function held on 16.02.2016 and received by Dr. S. Senthil Kumar, Co-ordinator, YRC.
- Flt. Lt. Dr. R. Sundhararaman was presented with **The Best NCC Officer Award** by நமது முரசு daily.
- Mr. Ryla award was given to Mr. Samsekar, I BBA.,
- Best Co-ordinator Award was given to Ms. Thirugnanasoundari, Rotaract Co-ordinator by Rotary Club of Tiruchirapalli.

Collaboration

3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

The Collaboration of the College with BHELSIA and IWS for offering Diploma in Fabrication Engineering has received wide appreciation from all quarters. UGC had sanctioned Carrier Oriented Programme to offer this Diploma. UGC has also sanctioned Community College Scheme to offer Certificate, Diploma and Advanced Diploma Programmes. The students who underwent this programme have been absorbed in Fabrication Industry located around Tiruchirapalli.

3.7.2 Mention specific examples of, how these linkages promote

National College has linkages with various institutes of academic importance, industry and corporate organizations of National and International repute. These contacts help to promote the mission of the institution, brand-building and in turn in the process of Nation Building.

- **Curriculum development**

Every board of studies in the college includes experts in their respective fields drawn both from academics and industry. These eminent members constantly keep contributing to the Curriculum and the course content, for enriching and updating the knowledge. Dr. T.H. Rao, Managing Director of Spetrochem Industries Pvt. Ltd., Hyderabad is a special invitee in the Board of Studies in the Department of Biotechnology.

Dr. Nagalakshmi and Mr. Anandapadmanabhan, Directors of Consortium Clinical Research Pvt. Ltd., Coimbatore, are members in the Advisory committee in Biotechnology. Dr. S. Balasubramanian, Chairman, CUB is a member of Academic Council of the College who helps in redesigning the Commerce curriculum.

- **Internship, On-the-job training**

Internship and / on-site training has been made possible in several UG/PG programmes through MoU with companies, Service Industry such as Clinical Research, Hospitals.

- Internship programme is part of the curriculum in BSc Physical Education, where students get trained in various reputed schools for a period of One-Month before the final graduation exams.
- Students of M.Sc. Biotechnology and PG Diploma in Bioprocess Technology are placed in On-site training / Project under the leading Clinical Research Organizations through MoU with Consortium Clinical Research Pvt. Ltd., Coimbatore.
- Students of M.Sc., Geology do their project in Granite cutting and polishing units run by private and public sector.
- Students of M.Sc., Chemistry take internship training in Mettur Chemicals (P) Ltd., and Orchid Chemicals (P) Ltd., Chennai.

- **Faculty exchange and development**

Faculty exchange programme has not yet been explored. Faculty exchange programmes have been charted out for implementation in the near future.

However, faculty visit other reputed research institutes to update their knowledge and get a grasp of application related areas in their subject..

- **Research, Publication**

Linkages with various academic institutions and industries have resulted in the upgradation of the facilities and research frontiers in the campus of National College. Faculty and students gain exposure through various programmes such as internship, projects etc. in other academic institutions and industries which have had immense impact in motivating them for research, which is reflected through their publication.

At National College, 466 publications have been recorded in the last four years. 20 minor and major research projects have been obtained through proposals.

- **Consultancy, Extension**

NCIF – is the one stop facility to analyze various kinds of samples for various studies through its state-of-the-art facilities comprising of SEM-EDAX, AAS, FT-IR, GC-MS, Flow Cytometer.

Dr. D. Prasanna Balaji, Director of Physical Education and Sports Science organizes Summer camp for School students on Foot ball, yoga, cricket and other sports. He also organizes intercollegiate staff cricket tournament every year. He conducts friendly cricket tournament for corporate employees.

- **Student placement**

Placement Cell of the College has been working hard to build a good relationship with the corporate world. Companies like Sanmar Ltd, V-Dart, TCS, L and T etc. have been regularly visiting the campus for recruiting our students from the departments of Literature, Computer Science, Commerce etc. Most of our students in the Under Graduate programme show little interest in the campus recruitment due to their desire for pursuing higher education. However, our PG students are getting placed in recruitment conducted within the campus and off the campus.

- **Any other, please specify**

Students have brought great laurels to the Institution through their participation and winning in many State-level and National level meets. The details of students participation in extension activities is given in **Annexure 3.14.**

3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance/other universities/ industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?

MoUs have been signed with nationally and internationally acclaimed institutions and corporates. The MoUs are either for quality training or for guiding the departments and students in a particular area of study. Such Industry-Institution partnership has helped to offer career-oriented, recognized Diploma / Certificate Programmes. This gives the students a winning edge over their contemporaries. There is collaboration for research with nationally recognized institutions as well, in the areas of Geology, Biotechnology, Physics and Chemistry.

3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

- MOU with **Consortium Clinical Research Pvt. Ltd., Coimbatore** to offer a Post Graduate Diploma in Clinical Trial Management and Regulatory Affairs for the students of Pharmaceutical, Paramedical and Life Sciences.
- Memorandum of understanding with **International Tamil Language Foundation (ITLF),** a non-profit, tax exempt USA foundation to implement the Project SPARC-EDUPAC. As per the terms, our students of UG Physics will be taught lessons prepared by Annenberg Foundation, USA.
- MoU with **UTL Technologies, Bangalore** to offer B.Sc. Remote Infrastructure Management Programme under the KAUSHAL scheme.
- MoU with **Studio Image, Tiruchirappalli** to offer B.VOC. programme in Digital Visual Media.
- MOU with **SSB Shrine of Overseas Learning** to establish an office in the college campus to help our students desirous of pursuing higher studies abroad

Consortium Clinical Research Pvt. Ltd., Coimbatore, has signed an MoU with National College to offer a Post Graduate Diploma in Clinical Research Programme for the students of Biotechnology. This programme has opened up a new avenue in placement for the students.

Reliance JIO, has signed an MoU with National College, Trichy for providing Campus-wide free Internet connectivity through wifi mode. The connectivity has totally changed the campus atmosphere and now enables our students to make use of e-resources with easy.

Geo-Biotechnology Facility: A collaborative project between Dr. K. Anbarasu (Geology) and Dr. S. Senthil Kumar (Biotechnology), funded by MoES is a new facility that has been established in the campus. Exclusive facilities are available for research in the facility.

Dr. M.S. Mohamed Jaabir, Associate Professor in the Department of Biotechnology of the College in Association with Trichy Medical Centre and Hospital, Trichy, has created a highly specialized and exclusive facility for research in Stem Cells in the campus, wherein the faculty and the scholars provide solutions to the Hospital Surgeon (Dr, Ramachandran) in stem-cell therapy for clinical trials.

Additional information regarding Research, Consultancy and Extension

A Common Instrumentation Facility in the name of NCIF has been established to support Researchers in the Science departments. Researchers and students from many parts of the state visit National College Instrumentation Facility (NCIF) for making use of the facility. The facility has number of high end research equipments. **See Annexure 3.10**.

- The researchers conducted in the Department of Geology, Biotechnology, Chemistry and Physics are interdisciplinary in nature and brought promising results.
- The consultancy services offered by the Department of Biotechnology in the field of Stem Cell Culture have received wide appreciation from the Medical practitioners of this region.
- The consultancy service offered by the Department of Geology on reserve estimation of Garnet Sands on the instruction of High Court of Madras has also received appreciation.
- Many researchers of the College have been presented with Best Paper Award.

Cr. IV – Infrastructure & Learning Resources

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CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The college has created adequate infrastructure for class rooms, laboratories, auditorium and meeting halls well in advance taking into account the future needs. The new block with 80 class rooms takes care of the additional class room and laboratory requirements. The library has been renovated with provision of facilities such as reading rooms, reference sections, meeting hall and audio visual theatre. The ladies hostel to accommodate 360 students has been constructed. The boys' hostel provides accommodation to 425 students. Massive indoor and outdoor stadia have been constructed. Physical infrastructure of high standards has been created to meet the present requirements as well as the growth aspirations of the college.

Whenever new programmes are introduced, the necessary infrastructure is created in advance. The inspection committee sent by Bharathidasan University for affiliation also verifies whether the necessary infrastructure have been created for the new programme. During the last four years the following new programmes were introduced

* B.A., English - Additional Section
* B.Sc., Biotechnology
* B.Sc., Computer Science-Additional Section
* B.Sc., Mathematics - Additional Section
* B.Sc., Physical Education
* B.Sc., Statistics
* B.Com., Computer Application
* B.Litt.
* M.A., English - Additional Section
* M.A. Human Resource Management
* M.Sc., Biotechnology
* M.Sc., Botany – Additional Section
* M.Sc., Microbiology
* M.Com. Financial Management

- M.B.A.
- M.Phil.,inBiotechnology
- M.Phil. in Physical Education
- Ph.D. in Physical Education
- Ph.D. in Management
- Ph.D. in Biotechnology
- Ph.D. in Zoology

The following practice is adopted for the optimal utilization of infrastructure in the campus.

- Timetable is arranged in such a manner that laboratories are used for various classes at different times.
- Some of the programmes are offered in the second shift.
- Contact classes of Distance Education programmes are conducted on holidays and after the class hours on working days.
- Auditorium and Seminar halls are offered for public use for education related activities at nominal charges.
- Tiruchirapalli District Cricket Association and Fencing Association are permitted to make use of the ground daily in the morning and evening hours.
- The college premises are made available to Tamil Nadu Public Service Commission, Indira Gandhi National Open University, Tamil Nadu Open University, State Bank of India, Karur Vysya Bank, Power Grid Corporation of India, Amrita University, TANCET etc for the conduct of their examinations.(**Annexure 4.1**)

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in Order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Infrastructure development is a priority area of the college. Continuous improvement of infrastructure in all its dimensions has been accorded top priority. The following projects have been planned and executed in the last few years.

- Reference section and reading room have been re-furbished in order to provide a pleasing environment for the students.

- Interactive Boards have been provided to all the Science Departments for the creation of better teaching learning environment.
- College plans to provide LCD projectors to all the class rooms. In the first phase classrooms of Botany and Geology departments have been provided with LCD projectors.
- Each department has been provided with at least one LCD projector to improve the Teaching learning process.
- Exclusive Research laboratories have been provided to Geology, Physics, Chemistry and Biotechnology departments.

4.1.3 Does the College provide all departments with facilities like office room, common room, separate rest rooms for women students and staff?

- HODs of all the departments have been provided with a separate office room with cupboards, Computer and printer.
- Each department has a separate staff room.
- There is a common staff lounge in the College.
- A room has been provided exclusively for lady staff.
- Girl's students have been provided with a separate room adjoining the lunch shed.

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

- All the buildings are provided with ramp facility with handrails for the easy movement of differently-abled students. Exclusive toilets are provided for Physically Challenged Students.
- Wheel Chairs and Hand pedaled Cycles are provided to the differently-abled students to go around the campus.
- A lift facility has been provided in the Jawaharlal Nehru block for the use of physically challenged students and staff.
- A facilitation center has been established to support visually challenged students. The center has necessary software Audio books, vision enhancement facilities and so on for their benefit.

4.1.5 How does the College cater to the residential requirements of students? Mention

❖ **Capacity of the hostels and occupancy (to be given separately for men and women)**

The residential requirements of students are taken care of by the renovated boys hostel and newly constructed girls hostel.

Boys hostel - 425 inmates

Girls hostel - 360 inmates

❖ **Recreational facilities in hostel/s like gymnasium, yoga center, etc.**

Boys' hostel has Badminton, Volleyball and Kabaddi courts**.** Carom Board and Chess boards have also been provided. A common room with TV and daily newspapers has been set up. A public audio system for playing of songs has been installed. A vertical and horizontal bar for exercise has been erected.

Girls hostel has a Badminton court and hand ball court. Carom Board and Chess boards have also been provided. A common room with TV and daily newspapers is set up for reading and recreation. A public audio system for songs has been installed.

The College indoor stadium, Gymnasium, outdoor stadium and other play facilities are available to hostel inmates in all the time.

❖ **Broadband connectivity / WiFi facility in hostels.**

Free Wi-fi facility has been provided in the whole campus of the College. Hostel students can use the facilityany time.

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

- There is medical centre in the College. A physician visits the centre twice a week. He is also accessible to attend emergencies. Students and staff make use of this facility.
- A blood grouping camp is conducted every year for the new entrants of UG and PG programmes.
- An Eye check-up camp is conducted every year for the new entrants to the College.

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

The following play ground, Indoor and outdoor stadium facilities and Gymnasium are

available in the College.

- Football ground
- Cricket Pitch
- Volley Ball court
- Kabaddi Court
- Kho-kho Court
- Shot put sector
- Javelin Arena
- High Jump pit
- Long jump pit
- Hurdles
- Yoga hall
- Pole vault
- Music band team
- Indoor Stadium - Basket Ball, Badminton and Table Tennis Court (Photo-1)
- Outdoor stadium - 8 Track lane with Viewers gallery (Photo-2)
- Multi Point Gym (Photo-3)
- Horizontal and Vertical Bar

4.2Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes. The Library Advisory Committee consists of Principal, Librarian and 4 Senior Faculty Members (**Annexure 4.2**). The Committee meets at the beginning of every Academic year and allocates funds for the purchase of books and journals. The committee gives suggestions for the improvement of library facilities.

Library Day is celebrated every year to popularize the activities of the Library. Prizes are awarded to students who make maximum use of library,during the function. Induction Programme is conducted for the under graduate freshers at the beginning of every year.

Reference section and reading hall have been refurbished recently for a good ambience for reading environment.

4.2.2 Provide details of the following:

- **Total area of the library (in Sq. Mts.)** - 1506.33m^2

GROUND FLOOR

	Physics, Commerce, and Hindi Stack Room area	-	177.085m^2
	Tamil & English Stack Room Area	-	177.085m^2
	Economics, History& Physics	-	137.60m^2
	Stock room	-	10.34m^2
	Total	-	**502.11m^2**

FIRST FLOOR

1.	Reference Hall		-	177.085m^2
2.	Reading Hall		-	177.085m^2
3.	Science, Sanskrit Stack Room	**Total**	-	**502.11m^2**

SECOND FLOOR

1.	E-Library		-	71.69m^2
2.	Conference Hall		-	105.40m^2
3.	Audio Visual Theatre		-	177.085m^2
4.	Back Volume Section		-	147.94 +
		Total	=	**502.11m^2**

- **Total seating capacity** - 200
- **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**

Working days	-	6.00 a.m. to 8.00 p.m.
Holidays	-	6.00 a.m. to 8.00 p.m.
Examination days	-	6.00 a.m. to 8.00 p.m.
Vacation	-	10.00 a.m. to 6.00 p.m.

- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
  - A spacious reference section with books, journals, Encyclopedia, and dictionaries

- A spacious reading room with dailies, weekly, monthly and other magazines.
- A computer laboratory with Internet facility for E-Journal access.
- A committee room for group interaction
- A conference hall with Audio-Visual Facility for special lectures.
- Huge well designed stack rooms in the ground, first and second floors.

❖ **Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode ofaccess to collection)**

- Library is centrally located and forms the frontage of the college.
- Reading room and reference section are near the main entrance of the library building.
- All facilities of the library have been indicated with signage.
- A lift provision has been provided to support differently-abled students.
- Fire alarm and fire extinguishers have been provided.

4.2.3Give details on the library holdings

a) Print (Books, back volumes and thesis)

S.No.	Particulars	Nos.
1.	Books	1,05,865
2.	Back Volumes	6,525
3.	Thesis	1,225

b) Non Print (Microfiche, AV)

Microfiche - Nil

AV - 315 (CDs-250, DVDs – 50, Cassettes - 15)

c) Electronic (e-books, e-Journals)

E-Books - 51,746 INFLIBNET/1,00,000 DELNET

E-Journals - 2,154 INFLIBNET

d) Special collection

(eg. Text book, Reference books, standards, patents)

S.No	Particulars	Nos.
1.	Text Books	98,865

2.	Reference Books	7,000
3.	Standards	No
4.	Patents	No

4.2.4 What tools does the library deploy to provide access to the collection?

❖ **OPAC**

The complete library catalogue has been uploaded in OPAC. Students and staff can browse the available titles through Internet from anywhere.

❖ **Electronic Resource Management package for e-journals**

Exclusive Library management software has been installed for the resource management. DELNET, INFLIBNET and N-LISTfacilities are available to access E-Journals.

❖ **Federated searching tools to search articles in multiple databases**

N-LIST (INFLIBNET) Collections

DELNET Access

❖ **Library Website**

The College website provides a separate menu in the home page to access all the details about the library.

❖ **In-house/remote access to e-publications**

Exclusive Library management software has been installed for the resource management. DELNET, INFLIBNET and N-LIST facilities are available to access E-Journals.

4.2.5 To what extent is the ICT deployed in the library?

❖ **Library automation**

Exclusive Library management software has been installed for the resource management. DELNET, INFLIBNET and N-LIST facilities are available to access E-Journals. The library is fully computerized. Online public access catalogue, Bar-coded user entry, bar-coded circulation system etc., are used to facilitate efficient use of library resources. The searching and retrieval system and access to resources have been designed to ensure quick and user friendly services.

Total number of computers for Public access

20 computers are available in the Library for public access.

- **Total numbers of printers for public access**

  One number (Laser printer)

- **Internet band width speed**

  ☑2mbps ☐10 mbps ☐1gb (GB)

- **Institutional Repository**

  Yes.College Magazine, College Calendar, Question Bank, Newsletters and research publications of our faculty are available as digital repository in the general library.

  Silver Jubilee volume, Golden Jubilee volume, Platinum Jubilee volume and Former Principal Saranathan Memorial volumes are the documents that trace the history of the College.

  Rare Sanskrit and Tamil Literature books are in our repository.

- **Content management system for e-learning**

  Yes. Course content from OER and MOOC websites have been downloaded to make them available for e-learning.

- **Participation in Resource sharing networks/consortia (like INFLIBNET)**

  We are the institutional members of the Networking and Consortia ofINFLIBNET/DELNET

4.2.6 Provide details

* Average number of walk-ins	- 600 per day
* Average number of books issued/returned	- 400per day
* Ratio of library books to students enrolled	-35:1
* Average number of books added during last three years	-2510
* Average number of login to OPAC	-150per day
* Average number of login to e-resources	-50per day
* Average number of e-resources downloaded/printed	-10per day
* Number of information literacy trainings organized	-03

4.2.7 Give details of the specialized services provided by the library

- **Manuscripts**

  No

- **Reference**

  Yes.

- **Reprography**

  Yes.Photocopying Machine and Printer are available for reprographic facilities.

- **ILL (Inter Library Loan Service)**

  Yes.DELNET Access with Inter Library Loan Facility

- **Information Deployment and Notification**

Yes.Informationon new addition to the library is displayed in the notice boardof library. New addition and other vital information are uploaded in the website.

- **OPAC**

The complete library catalogue has been uploaded in OPAC. Students and staff can browse the available titles through Internet from anywhere.

- **Internet Access**

Yes. All the Computers in the library are connected with broadband. Wi-Fi facility has been provided to cover the whole campus.

- **Downloads**

Yes.All the users of the library are permitted to download the documents from internet and allowed to copy in the pen drive with the permission of the Librarian.

- **Printouts**

Printouts are provided to students and staff on request. High speed printers and photocopying machine areavailable in the library.

- **Reading list/ Bibliography compilation**

Yes**.** The bibliography details of all the Ph.D. theses have been stored in a system for the use of staff and research scholars.

- **In-house/remote access to e-resources**

Internet browsing facility is provided in the library. Users can access e-resources with ease. Facilities for downloading the required materials and taking hard copies are available.

- **User Orientation**

The management is keen on ensuring optimal utilization of library resources. All steps have been taken to provide a comfortable environment to the users. Apart from the excellent physical ambience, steps have been to make the library user friendly. A library orientation programme is conducted every year for the I UG and I PG students.Students are informed of the facilities available and trained in using the library access system. The trained and well-motivated staff help the students in meeting their requirements.

- **Assistance in searching Databases**

The librarian and supporting staff in the library assist the students in utilizing the library resources.

- **INFLIBNET/IUC facilities**

Remote Access to E-Resources such as INFLIBNET and DELNET are also available.

4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

The total amount spent on purchase of Books and Journals during the last four years is given below.

Library Holdings	**2011-2012**		**2012-2013**		**2013-2014**		**2014-2015**	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	400	130777	832	312944	370	215586	662	203175
Reference Books	50	16347	93	21252	75	17500	45	12500
Journals/ Periodicals	J-105 P-08	91,120 15000	J-105 P-08	93,100 16,500	J-105 P-08	94,300 17300	J-102 P-12	96,100 26,000
Total amount	**Total**	**253244**	**Total**	**443796**	**Total**	**344686**	**Total**	**337775**
E-resources	From 2012 to till date we are using the e-resources (e-journals - 2154), (e-books - 51746) Provided by the inflibnet we are paying Rs. 5000/- per year as institutional membership fees from 10-03-2016 to 09-03-2017 we are using the E- resources (E-Books 1,00,000) provided by the DELNET - Developing Library Network we are paying Rs. 11,500/- per year as institutional membership fees.							

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services.

Yes. Suggestion Box is provided for receiving grievances and suggestion from the students and staff.Apart from the suggestion box, the librarystaff getregular oral feedback verbally from its users. The issuesare discussed in Library Advisory Committee meetings and strategies for improvement are planned.

4.2.10 List the infrastructural development of the library over the last four years.

* A massive new Library building was constructed and opened on 23/10/2013.
* OPAC has been provided
* Reference section has been re-furbished
* Computer lab and Committee hall for group interaction have been established
* Special lecture hall with Audio visual facility

4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of theCollege to facilitate better Library usage?

* Every year Orientation Programme for I Year students is organized. The students are informed about the facilities available in the library. They are encouraged tomake use of the library resources.
* Library day is celebrated every year .The Chief guests deliver speeches highlighting the importance of books, reading and using library resources.
* A Workshop on e-resources and Journals is organized for M.Phil. Scholars every year.
* Every Ph.D. student is provided with details of the library immediately after the registration.
* A workshop giving the details of the library is organized for the newly recruited staff members.

4.3 IT Infrastructure

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

Yes.

* The College has an exclusive College Management Information System (PALPAP).The

students personal, admission and fees details are maintained through this software. The Certificates like Course Certificate, Conduct Certificate and Transfer Certificate are generated through this software.

- The Controller of Examinations section has an exclusive software for exam related activities. The submission of examination application forms, payment of exam fees, issue of hall tickets and publication of results are carried out through this software.
- The College has signed an MoU with State Bank of India for online payment of College fees.
- The Principal has overall control and access for verification of all the data stored in software. The Principal is empowered with giving the ID and password with access rights to specified persons to ensure security.

4.3.2 Give details of the College's computing facilities (hardware and software).

❖ **Number of systems with configuration**

There are 350 computers in various laboratories in the College.All the computers are with latest configuration. Computers are replaced once in two yearswith new ones. The College has all the software required for academic and administrative purposes. All the computers are connected with LAN and internet. The newly added computers have configuration - Pentium IV Core2duo, speed 3ghz, Ram 1GB, Harddisk 160 GB, 17' LCD Monitor.

❖ **Computer-student ratio** - 1:11

❖ **Dedicated computing facility**

- Controller of Examinations has dedicated server for question paper typing and storingstudent data, marks and grades and other exam related data.
- Library has a server for storing all the data related to books, journals, theses and other reading materials.
- College office has a dedicated system for maintaining students' admission, fees and other data.
- Dedicated systems have been provided to each of the research departments.

❖ **LAN facility**

All the Computers in the College have been connected through LAN.

❖ **WiFi facility**

Reliance JIO has provided wi-fi facility to entire campus including Boys and Girls hostel.

❖ **Propriety software / Open source software's**

The College has the following propriety software

- SPSS - Statistical Package – 10 users
- ERDAS - Image processing software in the Department of Geology
- ARCGIS - GIS software in the Department of Geology – 10 users
- Windows, UNIX, MS office, Page maker, Photoshop, Corel Draw, Tally, Oracle, C-Compiler, JAVA, SAP, Dot net and other softwares required for covering the syllabus of the Computer Science and Computer Application.
- All the softwareinstalled in the NCIF.

The College has following open source software.

- Free software for the study of Bioinformatics like Auto Dock, Biolipse, Bio Java, Bio Perl, Galaxy.
- Linux

❖ **Number of nodes/computers with internet facility** - 300

❖ **Any other**

- College has an exclusive management software.
- All the exam related activities have been computerized.
- Interactive boards and projectors for ICT mode of teaching learning have been provided to all the departments.
- Library activities have been fully computerized.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- Computers are periodically updated with addition of RAM Capacity.
- The systems are replaced with new ones, once they are found very slow and incompatible. Usually once in 5-6 years all the systems are replaced with new ones.
- There is a System Maintenance Engineer in the College who looks after the maintenance of the Computer and does the troubleshooting.
- Besides, AMC arrangement is also made for old systems

4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research. Students are informed of important on line resources to reinforce their as learning.

- MOOC is accessed by many staff members to enrich the contents of the various topics.
- Many staff members are members of OER forum.

4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

- All the Science departments have been provided with Interactive Board, LCD projector and Computers with Internet facility for ICT enabled teaching.
- The College has planned to equip all the class room with ICT enabled teaching facility. In the first phase the class rooms in the Department of Geology and Botany have been provided with ICT enabled teaching facility.

4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials?What are the facilities available in the College or affiliating University for such initiatives?

- Each department has Computers for preparing PowerPoint presentation of the lectures.
- Office staff also extends their support in preparing the PowerPoint presentation.
- Many staff members use MOCC for the computer aided teaching material.

4.3.7 How are the computers and their accessories maintained? (AMC, etc.)

- The College has three permanent system administrators for the maintenance of Computers and other accessories.
- The Computer suppliers give five years warranty Computers are replaced once in 5-6 years depending on the performance of the computer and the compatibility with the internet service provider.

4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?

- The College avail NKN connectivity directly.
- Through NKN, the College has obtained 20 Broadband connectivity.

4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?

- An annual budget of Rs. 5,00,000/- is earmarked for the maintenance of the computers and allied devices.

4.4 Maintenance of Campus Facilities

4.4.1 Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

- Yes. There is a permanent estate officer with Engineering qualification and a supervisor to support him. An electrician, a Plumber and a carpenter have been appointed on regular basis to and maintain the facilities in the College.
- Workers have been employed for taking care of minor repairsand maintenance of all the buildings.
- A retired forest Officer with his supporting staff maintains the Campus garden.
- The open space in front of the library and the pathway to the Principal's office have been covered with interlocking cement blocks.
- Lawns have been developed in front of all the buildings.
- A temple of Lord Ganesh in the campus is well maintained

4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

- The Estate Office mentioned above looks after the maintenance and repair.
- Two supervisors and a few unskilled labours are employed permanently.
- For toilet cleaning and lawn maintenance electrical equipments are used.

Additional information regarding Infrastructure and Learning Resources.

The following infrastructure have been raised in the last four years.

- A new building with 80 rooms has been constructed.
- A Girls' hostel to accommodate 360 girls in a pleasant ambience had been constructed.
- A massive indoor stadium and an outdoor stadium have been constructed
- Library has been shifted to a new blockwith state of the art facilities and conducive environment for reading and learning. An annexure to the library has also been constructed.
- The Boys hostel has been renovated.
- A new mess hall and a modular kitchen have been constructed in the boys hostel.
- Research rooms have been provided to Chemistry, Physics and Biotechnology departments.
- A Biotechnology laboratory with modern facility has been established.
- Animal Tissue Culture facility with class 1000 cabinet is a unique laboratory in this region.
- Common address system connecting all the class rooms with the Principal's room has been set up to provide an instant and efficient means of mass communication.
- A Common Instrumentation Facility – NCIF – has been established to support to the researchers in all the Science departments.
- A Blind facilitation Centre has been established to support visually challenged students.
- UG & PG Chemistry labs have been renovated.

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Cr. V – Student Support & Progression

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CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes.

- At the undergraduate and postgraduate level, the **tutor and ward system structured to facilitate individual attention to students** is found to be extremely beneficial to the students. Teachers are entrusted with the care of a group of students.
- The Research guides play the role of mentors in the case of Ph.D. and M. Phil scholars. Through their continuous interaction, guides ensure the smooth progression of the research work. They help in facing the challenges of research and publication of articles, presentation of papers etc. Very often the guides groom the researchers' career.
- At the postgraduate level, the teachers spot the talents and special interests- such as debating, quiz, flair for writing- of students and help them in honing their talents and nurturing their interests.

5.1.2 What provisions exist for academic mentoring apart from class room work?

Tutor ward scheme is being followed in the College. A teacher designated as tutor is assigned a batch of 15 to 20 students, on their admission in the I U.G / P.G. The tutor acts as a mentor of the students throughout their course of study. He interacts with the students regularly and takes care of their needs. The tutor follows the progress of each student and maintains a counselling report as a record of his performance and progress. It includes details such as attendance, marks in CIA examinations and assignment submission. The tutor appraises the ward about his strengths and weaknesses and counsels him to improve the former and overcome the latter. He also provides career guidance based on the aptitude of students and makes a reference to the placement officer. This is one of the best practices adopted by the college.

The twenty – day bridge course helps the teachers to assess the level of knowledge and capabilities in general. The teachers handling bridge courses explain the systems, procedures and practices adopted in the college. They help the students to overcome their apprehensions, inhibitions and fear. It provides an opportunity to the students from rural areas to move into the higher education system in English medium with ease and comfort.

The Principal addresses the students of first year classes on the date of reopening the college. He explains what the college offers to them and tells them what is expected of them. He assures all support and exhorts students to make optimal use of facilities.

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counselling, soft skill development, etc.

Yes.

The college has many student clubs such as Rotaract Club, Junior Jaycees, Red Ribbon Club, Gender Club. The activities are coordinated by a professor in charge .These clubs conduct specific programmes on communication skill development, leadership training, soft skills development, public speaking etc. Our students are nominated to attend programmes conducted by other colleges and agencies also. In addition to the specific programmes, the college regularly invites young achievers, career counsellors, soft skill trainers and motivational speakers to address the students. NCC and NSS conduct a number of programmes which provide ample exposure to event management and promote team work skills and organizing abilities.

A soft skill course is offered to all the Under Graduate students as a part of the curriculum.

A course on personality development is offered by the Department of Commerce to students of B.Com.

5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?

Yes.

- The College publishes an updated prospectus every year. The prospectus provides a brief history of the college, details of courses offered, fee structure, working hours, hostel and other facilities available. The Prospectus is issued along with the application to all the candidates seeking admission in the College.
- A handbook giving complete details of the working of the college is given to all the students at the commencement of every academic year. The handbook gives a brief history of the college, details of programmes offered and facilities available in the college. The handbook also gives information on rules and regulations, scheme of

evaluation and internal assessment and facilities available in the College. It provides information on the dates of reopening, working days, dates of CIA Tests, dates for submission of assignments, dates for payment of fees and end semester examinations. The hand book also includes asuccession list of the Principals, lists of members of the College Committee, members of the IQAC, staff members (Teaching and Non-Teaching) and various committees and their membership. The college hand book is uploaded on the website and it can be accessed on line.

- A brochure of the College is published giving the details of Departmental Activities, Staff Profiles, Facilities in the Departments, Co-curricular activities, Infrastructure facilities available in the College, Sports and Games activities and other achievements.
- The College publishes aesthetically designed News Bulletin – first of its kind in this region – giving complete details of the activities in the College during a semester (Two issues in a year). The News Bulletin has received appreciation from all quarters of the society.
- The College website www.nct.ac.in also provides all the details of the College.

5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil./Ph.D./Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.

- Every year 20 students are given a scholarship of Rs.2000/- each by Andalammal Educational Trust.
- During the College Day Celebrations, prizes are distributed to all the students who get ranks in the University Examinations and brought laurels through other achievements.
- 86 endowments have been created in the college for giving awards to meritorious students.

5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g., Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)

80% of the students are receiving scholarship from state government under the Post Matric Scholarship scheme. The College provides Financial Assistance to all the SC, ST and OBC students through this scheme. A sum of Rs. 72,78,670/- was distributed to the students by way of Government Scholarships during the last academic year.

Among the Colleges of Tiruchirapalli District, our College has the distinction of distributing the highest amount of Government Scholarships to the students of OBC/SC/ST

The Hostel Students of SC/ST Community are provided with loan scholarships sanctioned by Government of Tamil Nadu. A Sum of Rs.5,93,000/- was distributed to the students as loan scholarships during the last year.

Every year 20 students are given a scholarship of Rs.2000/- each by Andalammal Educational Trust.

12 scholars have received Tamil Nadu Government scholarship of Rs. 3,000/- per month for 3 years for their Ph.D. programme. **(Annexure 5.1)**

03 scholars have received Rajiv Gandhi fellowship from UGC for Ph.D. programme. **(Annexure 5.2)**

Among the Colleges of Tiruchirapalli District, our College has the distinction of distributing the highest amount of Government Scholarships to the students.

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

Yes. The College has signed an MoU with SSB, a private educational consultant, to help students from other countries to get admission in the College and to help students of our College to help admission in foreign Universities for higher studies.

5.1.8 What types of support services are available for

- **overseas students**

The College has signed as MoU with SSB, a private educational consultant, to help students from other countries to get admission in the College and to help students of our College to help admission in foreign Universities for higher studies.

- **physically challenged / differently-abled students**

The college has taken special care to provide a comfortable and friendly learning environment to the differently-abled students. Physical structures like ramps and lifts enable them to have smooth movement from one classroom to the other. A Braille library and audio learning centre function within the library. Wheel chairs, crutches, special boots and white canes are procured from donor agencies and supplied to the needy students. A facilitation centre for blind students operating in the college takes care of their needs and provides all the facilities required by them.

❖ **SC/ST, OBC and economically weaker sections**

The College has special cells that address the needs of these students. They work in tandem with the social welfare department, Adidravida Welfare Department, the District Administration and other government agencies to make sure that all the welfare measures reach them. The college administration ensures that bus pass, train pass, free books, free laptops and other welfare assistance reach the students in time

❖ **students to participate in various competitions/conferences in India and abroad**

The College conducts a talent search competition at the beginning of the academic year. The Professor-in-charge of Fine Arts selects students to compete in folk and classical dances, music, singing etc. Teams are formed for each fine arts activity. Similarly students are selected for the college quiz team, elocution team, and debate team through competitions. The Physical Director of the college selects sportspersons to take part in various sports activities and events. The teams are provided with facilities for training, rehearsal etc. and the expenses are met by the college. The students are encouraged to take part in competitions. The college bears their travel expenses and other incidental expenses incurred for taking part in the competitions. The winners are rewarded with prizes their achievements are highlighted through face book, college news bulletin and website.

❖ **health Centre, health insurance etc. – A consultation clinic is set up in the college.**

A doctor visits the clinic regularly on Tuesdays and Thursdays. He is also accessible to meet emergency requirements. All the students are covered by a group insurance scheme. Many students have insurance coverage under Chief Minister's Health Insurance Scheme.

❖ **skill development (spoken English, computer literacy, etc.,)**

Spoken English classes are conducted regularly in the afternoons for the benefit of students. Teachers from the department of English and from other local colleges act as resource persons. A basic course on computer applications has been included in the curriculum and made mandatory for all under graduate students. All the students are trained in basic computer operating skills and internet browsing. All the students have e-mail accounts.

❖ **performance enhancement for slow learners / students who are at risk of failure and dropouts**

For the slow learners, special classes and remedial classes are conducted after the college working hours. They are counselled by the tutors and Heads of Departments on the ways for enhancement.

- **exposure of students to other institutions of higher learning/corporates/business houses, etc.**

Students are encouraged to participate in training programmes, seminars and workshops conducted by other colleges. Students are taken on field visits and industrial visits to provide practical exposure.

- **publication of student magazines**

To nurture the creative talents of students, a student magazine titled *Manavar Malar* is brought out annually. It carries creative essays, stories and poems written by the students, in English and in the vernacular.

5.1.9 Does the College provide guidance / coaching classes for Civil Services, Defense Services, NET/SLET and any other competitive examinations? If yes, what is the outcome?

Yes. Coaching Classes for Entry into Services and Coaching Classes for students appearing for NET are organized with the aid of UGC grants. These classes are conducted after the College hours. Many students participate in the Programmes. 78 students have passed NET and more than one hundred students have cleared SET in English, 04 students **(Annexure 5.3)** in GATE in the last four years. But the complete data are not available to the College.

A Study Centre in the College caters exclusively to the needs of students appearing for competitive Examinations. The Centre provides books and facilities for preparing for the competitive examinations.

Communicative English Classes are regularly conducted after the College hours. The aim of the Programme is to prepare the students to face the group discussion and interviews effectively.

Special interactive career counseling sessions are arranged periodically to inform the students of the opportunities available in various organizations, as well as the examinations conducted by state and central Service commissions, banking services, military services and so on.

5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as

- **additional academic support, flexibility in examinations**

The tutors-in-charge ensure that the study materials and academic assistance are made available to them to take care of their academic performance. **CIA** tests are conducted in a flexible manner for students who participate in sports and extracurricular activities of NSS, NCC and other clubs. Schedule of end semester examination is also redesigned if State/National level sports event are conducted during the period.

- **special dietary requirements, sports uniform and materials**

The sportspersons are supplied with uniforms and their dietary requirements are taken care of by the physical director in consultation with a dietician. The college management sponsors noon meals to deserving sportspersons.

- **any other**

10 students who excel in the sports activities are given free boarding and lodging.

5.1.11 Does the College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

A Career Guidance and Placement Cell under the supervision of a Placement Officer are functioning in the college. The cell arranges for lectures by experts on job opportunities and employability skills and conducts coaching classes for competitive examinations. Training for group discussion and facing the interview is provided. The Placement Cell has created a data base of students to provide information to prospective employers. The placement officer also acts as liaison officer between the industry and the institution. He periodically invites companies and arranges for campus interview. He also helps our students to attend off campus recruitment programmes.

5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

The details of students employed through campus recruitment for the last four years are given below.

S. No.	Year	Selected students in campus Interview
1.	2011-2012	258
2.	2012-2013	117
3.	2013-2014	225
4.	2014-2015	250

The following companies conducted campus recruitment in our College.

1. Anand Engineering Limited, Thuvakudi, Trichy
2. SANMAR Ltd., Chennai
3. Sakthi Finance Limited, Coimbatore
4. L&T, ECC Division, Chennai
5. N.Gopaldass Jewelers, Trichy
6. Banashankari Pipes
7. Ramco Cements
8. Dhanalakshmi Bank, Trichy
9. Medical Solutions, Coimbatore
10. Aircel, Trichy
11. Headhunt HR Services, Trichy
12. Malar properties, Trichy
13. Birla Cements, Ariyalur
14. Orchid Chemicals, Chennai, (At BHC, Trichy)
15. Pep Biz – Recruitment test. Career Net technologies, Bangalore
16. TVS Motors, Hosur
17. Eureka Forbes Ltd., Trichy
18. Reliance life Insurance, Tiruchi
19. TVS Motors, Hosur
20. Omega Health Care Pvt. Ltd., Tiruchi-1
21. Jobs HR, Servocraft, Chennai, (Data base list sent)
22. OKS Prepress Services (P) Ltd., Trichy
23. Molecular Connections ltd., Bangalore,
24. Aanamalais Toyota, Tiruchi,

25. Adecco Staffing Solutions, Trichy
26. Texmo Industries, Madurai,
27. Microchiop, Tiruchi,
28. VST Motors, Tiruchi,
29. CECRI, Karaikudi,
30. City Centre, Chennai,
31. TCS –BPO at SIGC, Trichi-2
32. JOB FAIR by Bharathidasan University at SIGC, Tiruchi-2
33. SRF limited at Bishop Heber College, Trichy-17
34. Karur Vysya Bank, Karur
35. Capgemini BPO
36. Hospira Healthcare Pvt. Ltd., Chennai
37. TNPSC Gr-IV Coaching Class
38. Campus Placements-Orientation Programme
39. LAPIZ DIGITAL SERVICES Chennai
40. Accentra Technologies, Tiruchi
41. Omega Healthcare, Tiruchi
42. Malar Properties. Tiruchi
43. NTT Data – Global IT Innovator
44. Bunge India Pvt. Ltd. Trichy-12
45. K. Ramakrishnan College of Engineering Tiruchirappalli-621 112
46. The Hindu, Trichy.
47. Kothari Petrochemicals Ltd, Manali, Chennai
48. Cethar Limited, Trichy
49. Randstad India Ltd., Chennai
50. SPS e-Publishers, Trichy
51. M and M Education, Trichy
52. Thulasi People soft Consultancy, Trichy
53. Monster College, Campus Drive Programs
54. M.A.M College of Engineering, Siruganur, Trichy. 621105
55. Centaur pharma, Chennai
56. AAP-Training cum Recruitment of SC/ST and financially backward students by Tata Consultancy Services under CSR initiative

57. VDart Technologies Pvt. Ltd., Tiruchirappalli
58. Zifo Technologies, Chennai Conducted at BHC and BARD, Try -23
59. TCS –SASTRA
60. HEXAWARE Tech. @KRCE, Trichy
61. Metrohm India Ltd. Chennai
62. Tech Mahindra @ Hall mark Business School
63. CTS , pooled campus at KRE, Samayapuram
64. Marico limited, Mumbai @ JMC
65. Stat Street HCL pooled drive at SASTRA
66. Domex e-Data Pvt Ltd, Chennai.
67. Nice education wayanad, Kerala-673579
68. Sun business solutions pvt. Ltd., Trichy
69. Tvs-ICICI bank for sales position recruitment
70. Seva gases pvt. Ltd. Pudukkudi, Thanjavurdt
71. Molecular connections pvt. Ltd., Bangalore
72. Ultratech cement limited, reddipalayam, Ariyalur
73. Thomson reuters, Hyderabad
74. Microchip, Trichy
75. Eureka forbes limited, Tiruchirappalli
76. Sesasterlite, walk in interview at sjc for passed out phy, che students.
77. Cethar limited, Tiruchi-1
78. Veesons energy systems, Thuvakudi

5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the College?

Yes.

The following are the office bearers of Alumni Association

S. No.	Name	Designation
1.	Dr. R. Ramasubbu, Editor, Dinamalar	President
2.	Mr. Narashiman, (Rtd) AGM, State Bank of India, Tiruchirapalli.	Vice-President
3.	Mr. Diljit Shah, Proprietor, Gopaldas& Co, Diamond merchant	Vice-President

4.	Mr. Velayutham, Asst. Director, (Retd), Agriculture Department	Vice-President
5.	Mr. N.V. Murali, Proprietor, NVV cabs, Tiruchirapalli.	Treasurer
6.	Prof. K. Elango, Associate Professor, Department of Economics	Secretary

The Association has its annual meeting on the 1st Sunday of February every year. In the meeting, members share their campus experience during their period of study in a nostalgic manner. They suggest plans for the improvement of the college. Many old students have created Endowments to offer Scholarship to the students and have assured all help in taking their alma mater to greater heights of glory. In the Annual Meeting, prominent persons are honoured with distinguished Alumnus Award. Mr. S. Natarajan, Director, Sriram Group, an Alumnus, donated a bus to the College. The following are the office bearers of Alumni Association. The following endowments were created during the last four years by alumni.

- Ms. Sathya – Vimala Endowment Prize best outgoing student of Physics Department
- Dr.N.Baskaran, Endowment Prize for best outgoing B.A., Economics
- Dr.Parthasarathy, Principal Saranathan Endowment Lecture
- Dr.Parthasarathy, Principal Saranathan Endowment Prize for B.A. English student
- Prof.A.Krishnamoorthy Endowment Prize best outgoing B.Sc., Mathematic
- ManavasiParthasarathiIyengar Endowment Prize Scholarship students in Mathematics.
- Dr. K. Rajarathinam Endowment Prize for best outgoing B.A., Tamil student.

5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

Yes. There is a Grievance Redressal Cell in the College. The members are

Dr. K. Anbarasu	-	Principal	-	Chairman
Dr. D. Srinivasan	-	Asso. Prof.	-	Geology
Dr. S. Sivakumar	-	Asso. Prof.	-	Commerce
Dr. S. Pari	-	Asso. Prof. & Head	-	Physics

The Cell receives complaints from students and staff and redresses the grievances. The following grievances have been redressed in the last two years.

- The students of Self – Financing Section and Aided section sought I easy access to banking system. The Grievance Redressal Cell liaised with banks and helped them open accounts in a nationalized bank.
- Acceding to the request of the students, the working hours of the library have been extended.
- On students' suggestion the examination hall tickets are issued online. This averts last minute rush and other inconvenience to students.
- A request for additional computer facilities was granted immediately with the establishment of an additional computer laboratory.
- Suggestion boxes have been placed in the College office and in the College Library.

5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

Yes. A Women's Cell has been functioning in the College for many years now. Principal of the College is the Chairman of the Cell and the following staff are the members

Convener Members	:	Mrs.A.AmathussalamAsso. Prof., Dept. of Chemistry
Teaching	:	Dr. Manju Somanath, Asst Prof., Dept. of Mathematics
		Mrs. S. Jamuna Rani, Asst. Prof., Dept. of Commerce
Non-Teaching	:	Mrs.K.Savithri, Superintendent
		Ms.K.Vijayalakshmi, Lab Assistant (SG)
		Mrs. B. Rajeswari, Assistant (UAP)
NGO	:	Mrs. B.S.HajiraBasha, B.Sc., LLB, (Advocate)
Nodal Officer	:	Mrs. R.Padma, M.A., B.L., (Advocate)

The Cell has been constituted to combat violence against women including sexual harassment in the Campus. It is pertinent to note that the College has been functioning in a cordial atmosphere totally free from gender bias or unpleasant instances of harassment or teasing.

5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes. There is an anti-ragging committee. Ever since ragging is declared as a crime and punishable by law there are no instances of ragging. The telephone numbers of anti-ragging committee members and the hostel wardens are published in the student handbook for immediate complaint and redress. Display boards warning the students for ragging have been placed in vantage points in the campus.

5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co - curricular activities, research, community orientation, etc.?

The teaching faculty of the college is well qualified and highly motivated. The management of the college adopts a policy of decentralisation. The Principal is in constant touch with the Heads of Departments who into turn are in touch with the faculty members. Periodical staff meetings are conducted in the departments to monitor, review and plan the activities. The Principal interacts formally with the Heads in meetings of Heads of Departments. Appropriate systems are in place and the spontaneous cooperation of the teachers is channelized by the principal and management towards the attainment of organizational goals.

The Non-teaching staff is competent and the management ensures smooth functioning of all activities by clear demarcation of duties, appropriate delegation of authority and system for accountability.

The management committee is committed to the growth and welfare of the college and plays a proactive role. Bodies such as IQAC, Boards of Studies, Office of the Controller of Exam are governed by well designed structures, systems and procedures.

The College has created subsystems for every major function. Various associations and clubs under the direction of competent professors take care of the activities required for the welfare and development of students. For instance, IQAC promotes research, ensures quality and innovations and takes care of academic audit. The outreach programme of various departments and the NSS and NCC camps have greatly helped the students to orient themselves towards community welfare. Sound systems have been established and they are managed by experts. As a result, there is a high degree of cooperation from the stake holders.

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?

Winners are facilitated during departmental functions and the college day function. Moreover, cash awards are given for their participation and winning. The principal also informs and complements the students through the public address system which boosts their self-image. The college news bulletin and the magazine carry their photographs and the

winners and achievers find a special word of appreciation. In the facebook page hosted by our college secretary, such students find praise and recognition.

5.1.19 How does the College ensure participation of women in 'intra' and 'inter' institutional sports competitions and cultural activities? Provides details of sports and cultural activities in which such efforts were made?

Ever since the college became a co-educational learning centre, efforts are on to promote the participation of women in various competitions. Sports gear provided to them free of cost. For those who participate in cultural events vestment and properties are provided.

5.2 Student Progression

5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges / universities (if available)

Year / Batch	S.No.	Course	Students appeared	Students passed	% of pass
2011-2012	1	B.Sc., Botany	16	14	87.5
	2	B.Sc. Chemistry	39	26	66.7
	3	B.Sc., CS	28	25	89.3
	4	B.Sc. Geology	30	27	90
	5	B.Sc., Mathematics	50	38	76
	6	B.Sc., Physics	41	26	63.4
	7	B.Sc., Zoology	16	15	93.8
	8	B.A., Economics	40	37	92.5
2011-2012	9	B.A., English	98	63	64.3
	10	B.A., History	42	39	92.9
	11	B.A., Philosophy	01	01	100
	12	B.A., Tamil	26	26	100

	13	B.B.A.,	117	103	88
	14	B.Com.	199	159	79.9
	15	B.C.A.	53	41	77.4
2012-2013	1	B.Sc., Botany	21	15	71.43
	2	B.Sc. Chemistry	46	22	47.83
	3	B.Sc., CS	37	28	75.68
	4	B.Sc. Geology	28	24	85.71
	5	B.Sc., Mathematics	40	33	82.50
	6	B.Sc., Physics	46	35	76.09
	7	B.Sc., Zoology	19	13	68.42
	8	B.A., Economics	22	14	63.64
	9	B.A., English	108	94	87.04
	10	B.A., History	19	10	52.63
	11	B.A., Tamil	26	17	65.38
	12	B.B.A.,	105	92	87.62
	13	B.Com.	156	122	78.21
	14	B.C.A.	58	39	67.24
2013-2014	1	B.Sc. Botany	14	7	50.00
	2	B.Sc. Chemistry	45	19	42.22
	3	B.Sc., CS	60	48	80.00
	4	B.Sc. Geology	33	24	72.73
	5	B.Sc., Mathematics	52	48	92.31
	6	B.Sc., Physics	42	33	78.57
	7	B.Sc., Zoology	15	9	60.00
	8	B.A., Economics	16	12	75.00
	9	B.A., English	91	72	79.12

2013-2014	10	B.A., History	19	12	63.16
	11	B.A., Tamil	26	15	57.69
	12	B.B.A.,	98	85	86.73
	13	B.Com.	148	126	85.14
	14	B.C.A.	63	49	77.78
2014-2015	1	B.Sc. Botany	14	9	64.29
	2	B.Sc. Chemistry	33	26	78.79
	3	B.Sc., CS	57	54	94.74
	4	B.Sc. Geology	38	28	73.68
	5	B.Sc., Mathematics	51	48	94.12
	6	B.Sc., Physics	39	25	64.10
	7	B.Sc. Physical Education	14	5	35.71
	8	B.Sc., Zoology	10	6	60.00
	9	B.A., Economics	12	12	100.00
	10	B.A., English	85	59	69.41
	11	B.A., History	12	11	91.67
	12	B.A., Tamil	19	14	73.68
	13	B.B.A.,	97	87	89.69
	14	B.Com.	194	160	82.47
	15	B.Com. (CA)	53	51	96.23
	16	B.C.A.	107	84	78.50

PG

Year / Batch	S.No.	Course	Students appeared	Students passed	% of pass
2011-2012	1	M.Sc., Applied Geology	12	11	91.67
	2	M.Sc., Botany	15	15	100.00
	3	M.Sc. Chemistry	12	9	75.00
	4	M.Sc., CS	6	6	100.00
2011-2012	5	M.Sc., Mathematics	25	23	92.00
	6	M.Sc., Physics	24	24	100.00
	7	M.Sc., Zoology	16	16	100.00
	8	M.A., Economics	23	22	95.65
	9	M.A., English	14	12	85.71
	10	M.A., Tamil	23	21	91.30
	11	M.Com.	51	42	82.35
2012-2013	1	M.Sc., Applied Geology	12	12	100.00
	2	M.Sc. Botany	13	11	84.62
	3	M.Sc., Biotechnology	12	12	100.00
	4	M.Sc. Chemistry	24	21	87.50
	5	M.Sc., CS	20	17	85.00
	6	M.Sc., Mathematics	34	31	91.18
	7	M.Sc., Physics	35	29	82.86
	8	M.Sc., Zoology	22	21	95.45
	9	M.A., Economics	8	8	100.00
	10	M.A., English	19	17	89.47
	11	M.A., Tamil	19	18	94.74
	12	M.Com.	48	43	89.58

2013-2014	1	M.Sc., Applied Geology	15	15	100.00
	2	M.Sc., Botany	7	7	100.00
	3	M.Sc., Biotechnology	15	15	100.00
	4	M.Sc. Chemistry	52	38	73.08
	5	M.Sc., CS	21	20	95.24
2013-2014	6	M.Sc. Information Technology	3	3	100.00
	7	M.Sc., Mathematics	43	42	97.67
	8	M.Sc., Microbiology	3	3	100.00
	9	M.Sc., Physics	49	46	93.88
	10	M.Sc., Zoology	12	10	83.33
	11	M.A., Economics	11	11	100.00
	12	M.A., English	42	40	95.24
	13	M.A., Tamil	12	12	100.00
	14	M.Com.	50	45	90.00
2014-2015	1	M.Sc., Applied Geology	16	16	100.00
	2	M.Sc., Botany	11	11	100.00
	3	M.Sc., Biotechnology	2	2	100.00
	4	M.Sc. Chemistry	37	35	94.59
	5	M.Sc., CS	14	14	100.00
	6	M.Sc., Mathematics	47	39	82.98
	7	M.Sc., Physics	28	27	96.43
	8	M.Sc., Zoology	13	13	100.00
	9	M.A., Economics	11	10	90.91
	10	M.A., English	49	42	85.71
	11	M.A., Tamil	8	7	87.50
	12	M.Com.	41	39	95.12
	13	M.Com. (FM)	5	5	100.00

5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

Student progression	**%**
UG to PG	≥ 50 %
PG to M.Phil.	≥ 10 %
PG to Ph.D.	5-10%
Employed • Campus selection • Other than campus recruitment	10-20 % 40-50 %

UG students who study Mathematics, Physics, Chemistry, English and Economics join B.Ed. programme at the end of the degree programme and come back to College for PG programme after completing B.Ed. It is a clear indication that they want to take up teaching as their career. The increased numbers in Ph.D. registration indicates that students are evincing interest in Research.

5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

The programme-wise completion rate has already been provided in 5.2.1. Dropout ratio is ≤1%.

5.2.4 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

78 students have passed NET and more than one hundred students have cleared SET in the subject English. **(Annexure 5.3)**

4 students in GATE in the last four years. But the data are not fully available to the College. (**Annexure 5.3**)

5.2.5 Provide details regarding the number of Ph.D./D.Sc./D.Litt. thesis submitted, accepted, resubmitted and rejected in the last four years.

85 scholars were awarded with Ph.D. Degree through the various departments of the College during the last four years is given in previous chapter. No thesis was resubmitted or rejected during the last four years. The examiners have made suggestions for corrections in a few theses and the corrections were carried out by the respective scholar.

5.3 Student Participation and Activities

5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

- All the Under Graduate students are enrolled in NCC or NSS or any one or more of the clubs established to nurture co-curricular activities. In addition to the 4 NCC units (Air Wing, Naval Wing, Army Wing, Armed (Sqn) and 4 NSS units, the College has the following clubs.
  - Youth Red Cross
  - Rotaract Club
  - Red Ribbon Club
  - All India Boys Scouts
  - USSC – University Students Service Corps
  - Gender Club
  - Fine Arts
  - Consumer Club
  - Exnora
- The students are encouraged to participate in a wide range of extracurricular activities through these clubs, NCC and NSS. Our students actively participate in social welfare activities such as blood donation, free health checkup, free eye testing, flood relief, crowd management during festival seasons and polio immunization programme. They participate in rallies conducted to promote awareness of cancer, the evils of tobacco and AIDS. Leadership and Personality Training Programmes, Cultural Events and competitions are conducted by the clubs. The students also participate in Inter Collegiate Competitions.
- A Blood Donors Directory has been prepared by Air Wing unit of NCC and is updated annually. The blood donors' directory has proved to be the life line for many patients during emergencies. The directory facilitates an immediate and easy contact with the donor. Many doctors and patients have showered accolades on the college for the invaluable and humanitarian service.

There are two Physical Directors in the College. They conduct regular Sports and Games activities for the students. The College has Cricket team (Boys) Cricket team (Girls), Volley Ball Team (Boys) Volley Ball (Girls), Kabaddi team (Boys) Foot Ball team (Boys), Foot Ball team (Girls) and kho-kho team (Boys). Students are regularly coached and are sent for participation in Inter Collegiate University level and Inter University Competitions. Many players play for Bharathidasan University Team. Athletes are also trained and sent for

Competitions. The achievements of the college in extra-curricular activities and Sports and Games Activities in the last four years are given in **Annexure 5.4**and **Annexure 5.5** respectively.

5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University / State / Zonal / National / International, etc.

The details of achievement of students in Co-curricular and cultural activities at different levels like University/State/Zone have already been given in the previous chapter.

5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?

- The College is aware of the fact that a feedback is a telling commentary on the services provided in the present. It uses the feedback to take corrective measures, alter or improve any support service and also to introduce new forms of support services.
- The feedback of students on Academic matters and support services are collected **annually** through a common feedback form issued to them.

5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the College?

- The suggestion for changes in the curriculum is always sought from the old students. Many students offer suggestions based on the nature of work they carry out in their companies / organization.
- The placement cell seeks and obtains feedback from the employers as well as students who have secured placements through campus recruitment. The deficiencies and challenges of the candidates are identified. Corrective measures are incorporated in training and preparing the students for placement. For instance, steps have been taken to improve the confidence level, communication, leadership and soft skills of the students through special programmes. Suggestions for improvement and growth are received during the alumni meetings as well.

5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.

- Students of the College publish a magazine "Maanavar Malar" bi-annually.
- Students who undergo add on programme on journalism publish 'Gnabagangal' giving the details of Trichy town.
- Articles, Poems and paintings of the students are collected every year and published in a separate section in College Magazine.
- Many students participate in Workshops / Seminars to present their research findings.
- Students participate and exhibit their talents in Elocution and debate competitions.
- Many Students participate in Essay Writing and drawing competitions
- List of student achievers in Fine Arts and Literary Competitions is given in **Annexure 5.6**

5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

- Yes. The College has students' chapter of IQAC. It has 4 office bearers who attend meetings of IQAC along with regular IQAC members. Two Students from each department, Leaders of NCC and NSS and other clubs are the members of the chapter. The students' chapter represents to the Principal the grievances of the students. The chapter also suggests measures for improvement in the activities of the College. There is a core group of students consisting of 2 students from each class. They make suggestions for the improvement of the activities of the College.

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

- There is an Academic Association in each department of the College. A staff member of the department is Vice-President of the Association and a student of the Department is the Secretary of the Association.
- In all the club activities, besides a staff in-charge, a student representative acts as Secretary of the Club.

Additional information regarding Student Support and Progression.

- Communicative English classes are conducted after the College hours.
- Remedial coaching classes are conducted for the students who fail in the end semester examinations.
- Coaching classes for NET and Competitive examinations are conducted.
- There are five units of NCC, four units of NSS and number of other clubs function in the College for the comprehensive growth of the students.
- Career guidance and placement cell arranges campus recruitment.
- A group consisting of 2-3 meritorious students from each class has been formed and named as **Core group.** The group is given additional training for their comprehensive growth throughout their period of study.
- Tutor Ward System is not only a continuous monitoring system, but also a powerful mentoring system.

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Cr. VI – Governance Leadership & Management

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CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the College.

Vision

To offer quality Higher Education to the younger generation, especially from rural India, who are economically and socially backward, to liberate themselves from prejudice, oppression and ignorance and to gain knowledge for their bright future.

Mission

- To ignite the young minds with lofty ideals and inspire them to achieve excellence in the chosen field.
- To facilitate individual growth of students, with accent on character building, through co-curricular and extra-curricular activities.
- To encourage the students to take-up research and help them reach global standards.
- To provide a congenial atmosphere to study and learn, with infrastructural facilities of highest order.
- To instill in the minds of the students the sense of Nationalism and to train them in social awareness.

To fulfill these missions, the College offers UG and PG programmes in conventional subjects in order to facilitate the rural students to join the programme without any inhibitions.

6.1.2Does the mission statement define the College's distinctive characteristics in termsof addressing the needs of the society, the students it seeks to serve, College'straditions and value orientations, vision for the future, etc.?

The mission statement succinctly brings out the unique role of the college in addressing the needs of the society as well as the students it seeks to serve. Since inception, the college has been providing higher education to the under privileged sections of the society. 90% of students of the College and from the economically and socially back ward sections especially the first generation learners. The college is proud of contributing its might to the welfare of the marginalized sections by empowering them with quality education at practically no cost. The college stands out as a shining symbol of service and simplicity. Thousands of students embraced into its fold and provided emotional comfort and academic support are well

placed in life. Their success is ample testimony to the service of the college, its tradition and value orientation.

6.1.3 How is the leadership involved in

- **ensuring the organization's management system development, implementation and continuous improvement**

The College Committee headed by Padmabhushan Dr. V. Krishnamurthy, a well-known manager par excellence and turnaround expert, boasts of eminent leaders across sections of the society. The Secretary of the college Sri. K. Raghunathan, a distinguished lawyer of more than 50 years of creditable standing is a man of action. Dr. K. Anbarasu, Principal, a renowned Geo Scientist, dedicates himself for the welfare of the College and moves closely with all stakeholders having human touch in all his activities.

The College Committee as the mastermind of the college has evaluated the management systems meticulously and has implemented a series of measures for the development of management systems.Long term plans for infrastructure development, academic programmes etc have been conceived and implemented.

- **interaction with stakeholders**

The President of the college makes it a point to have detailed formal interaction with the staff atleast twice in a year in addition to a number of informal interactions during his visits to the college. The Secretary meets staff and students on a day-to-day basis. He personally congratulates students who brings laurel s to the college and presents them with prizes.

The Principal addresses the staff and students separately on the reopening day of every semester and tells them what the college offers them and what is expected of them. He also uses the public address system as a means of constant communication with students and staff. The rounds by the Principal every day is a valuable channel of communication with the staff and students.

Meetings of the College Committee, Academic council, Boards of Studies, Staff meetings, Meetings of Heads are other modes of maintaining contacts with the stake holders.

Parents are invited to attend college day and sports day celebrations of the college. Parents of freshers attend a meeting on the first day of the academic year. It serves as a forum to reassure parents of the well-being and progress of the student and ascertain their aspirations and opinions which could serve as inputs for improvement.

For the past 10 years, the College has been conducting annual Alumni meet on the first Sunday of February. As a forum for reunion and a think tank for the future growth of the college, it is a grand success. Every year two distinguished alumni of the college are honoured. Efforts are on to strengthen the Alumni Association.

- **reinforcing culture of excellence**

The culture of excellence is very dear to the college. The President, who brought esteem to public sector, injects enthusiasm amongst the staff by sharing his experience in SAIL, Maruthi and BHEL etc. His brief discourses on the specific practices reinforce the strengths and overcome the weakness, to exploit the opportunities and meet the challenges are clear road maps for excellence. The Secretary and Principal put in tireless efforts to build National College into institution of excellence. Rapid and Radical changes have been made in the functioning of the college. Massive infrastructure had been created to provide the best in the class facilities to our staff and students. Efforts to get grants from UGC, DST etc. are encouraged and rewarded. Teachers who have got projects, presented papers, organized seminars and contributed to the growth of the college are honoured and rewarded in a special event on the last working day of every semester. Right from provision of library facilities, class room facilities, harnessing of ICT, interaction with experts through seminars etc, the leadership is guided by the quest for excellence.

- **identifying needs and championing organizational development (OD)?**

Identifying needs is done systematically. The Principal collects information from the students, faculty and non-teaching staff. The Secretary takes a very active part in the day to day management and gets first-hand information about the needs of students and staff. Numerous organizational development initiatives have been taken based on the assessment of needs. The Girls Hostel, New block, fully renovated boys hostel, Cafeteria, Indoor Stadium, Instrumentation facility are a few organizational development initiatives in the last four years.

6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

No. The leadership positions are filled in immediately as and when they arise.

6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

Yes, The College ensures that all position in its statutory bodies are filled and meetings are conducted at stipulated intervals. The College Committee, a statutory body as per TNPC(R)

Act (1979), meets once in three months. The Governing body meets at least twice a year. The Academic council meets twice a year. The Finance Committee meets twice a year.

6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

The college strongly believes in promoting the culture of participative management. At the level of the overall management, two senior teachers are nominated to the college committee, in addition to representative from the non – teaching staff.

The Principal is ably assisted by the Deans and Heads of Departments in the decision making process. The Heads have been delegated necessary powers to run their departments smoothly and successfully.

The IQAC and Academic council have representatives from each department. In addition, industry experts, subject experts, University representatives, and societal representatives are inducted to get the best out of brainstorming. Special invitees are also called in to get valuable inputs.

6.1.7 Give details of the academic and administrative leadership provided by the University to the College?

National College is an autonomous institution. The Programmes are affiliated to Bharathidasan University. It ensures that all the requirements for the conduct of various programmes are fully met. The University also nominates its representatives to the College Committee, Governing Body, Academic Council and Boards of Studies. The college is greatly benefitted by rich and varied experience of the experts in academic and administrative matters.

Once in three years Bharathidasan University sends a team for Triennial Commission. The Commission goes through all the activities of the College and submit a report to the University.

6.1.8 How does the College groom the leadership at various levels?

The college adopts a clear cut strategy of nurturing talent for leadership. The young staff are assigned the work of managing the affairs of the department associations. They learn the nuances of organizing meetings and taking care of student needs. Teachers are encouraged to organize seminars, workshops etc. Promising faculty are appointed as NSS Programme Officers which provides them a great deal of exposure for developing skill of leadership and imbibingsocietal values and concerns. Faculty are groomed as under study in positions such as

hostel warden, Dean, Asst. Controller of Examinations, Chief Superintendent for Examinations, and Co-ordinators of events.

6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

Yes. The quality and number of Research publications, awards received by the staff and scholars, the results of students in the end semester examinations, achievements of students in co-curricular activities etc. are documented and analyzed every year to understand the knowledge level of staff and students. Steps are periodically taken to maintain and improve the standard and numbers in all these aspects.

6.1.10 How are the following values reflected in various functions of the College?

- **Contributing to national development**

Nearly a hundred years ago, National College was conceived of a Nationalist Institution by our great, courageous founders. The genesis of the college lies in the nationalistic fervor and the burning desire to provide higher education to the masses.

The indomitable spirit of Nationalism and Service have been strengthened over the decades. Today, National College is a leader in providing education of a high quality to the marginalized sections. By keeping the doors wide open to the downtrodden and moulding them into well groomed, educated citizens, National College is contributing continuously towards the cherished dream of an egalitarian society. Thousands of our students are leading lives of honour and dignity thanks to the inclusive polices of the institution and vision of its great founders and philanthropic attitude of the leadership.

There are 5 units of NCC, 4 units of NSS and number of other co-curricular clubs functioning in the College. The cadets and volunteers are trained to work for the society and to support the downtrodden communities.

- **Fostering global competencies among students**

The well designed curriculum and well executed pedagogy provide them an excellent exposure in the chosen field of study. Many of our students develop competencies on par with global standards in branches such as Geology, Commerce and Physical Education. The College has signed an MoU with a private enterprise – SSB – to help the students who seeks admission in foreign Universities and to help the foreign students to get admission in the College.

- **Inculcating a value system among students**
  - Universal Peace Foundation, a spiritual organization, conducts regular short term Value Education programme – *Manavalakalai Payirchi* - for the students.
  - Yoga training is offered the students through the Department of Physical Education.
  - The underlying values of the institution have always been simplicity, service, integrity and hard work. In addition to the environment which inculcates values, our staff stand for these values and serve as models worthy of emulation. In addition the college offers Value Education as course for all U.G students.
- **Promoting use of technology**
  - All the students data are managed by a College management software namely PALPAP
  - Students pay all the fees through online payment gateway available in our College website.
  - All the activities of Examination section have been computerized.
  - Researchers are supported with latest equipment and subscription to journals.
- **Quest for excellence**
  - The quest for excellence is manifest in every sphere of activity. It is quite visible in infrastructure. The esthetically pleasant and functionally efficient auditorium and the massive library, the grand indoor stadium, the recently refurbished science labs, the magnificient Bio tech lab boasting of the state of the art equipment are the tangible proof of our quest.
  - Research activities are given priority bring excellence in the respective area of study. The total number of Research publication and number of Ph.D. awardees through the College are the ample proofs of such excellence.
  - The management motivates the staff to actively pursue excellence. Their individual initiatives are well supported.
  - The Dept. of Physical Education has come out with flying colours.
  - Teachers who bag projects,make significant academic contribution in different forms-participation in seminars, presentation of papers are recognized and rewarded. Management comes out with all out support for every proposal that would improve quality and accelerate growth.

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.

- Teacher orientation programmes must be conducted in the College.
- Feedback mechanism should be strictly adhered to.
- Engagement of a Female doctor on campus.
- More Computers with latest configuration must be provided to all the Departments.
- Strengthening of Anti-ragging Cell.
- Strengthening of Sexual Harassment Redressal Committee.
- Skill Enhancement Courses need to be added.
- Extended library hours.
- Further strengthening of existing laboratory infrastructure.
- Number of toilet facility need to be increased, especially for the Girls.
- Campus Wi-Fi facility should be extended for all in the campus.
- The Office of the Controller of Examination needs to be further secured.
- More bridge courses and remedial classes are desirable to improve the performance of students at UG level.

The Committee examined all the necessary documents and inspected the infrastructural facilities of the College systematically. Further it also solicited clarifications from concerned authorities of the College, wherever necessary. After having gone through the laid down norms and procedures of the UGC, the Committee is satisfied with the overall infrastructure, curricula and performance of the College. Therefore, the Committee unanimously recommends the grant of the extension of Autonomous Status to National College, Tiruchirapalli for a further period of six years w.e.f. 2016.

6.2 Strategy Development and Deployment

6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.

Yes.

National College has a well thought out plan for development. The specific strategies relating to various aspects of the plan are explained below.

❖ **Teaching and learning**

The College adopted Choice Based Credit System since the year 2004. Under this scheme, the College reviews and redesigns the course curriculum ***with the implementation of Continuous Internal Assessment.***

- Use of ICT in teaching and learning process.
- Contribution of the faculty to the development of e-learning resources in their field of specialization
- Modernization of classrooms to suit the day-to-daytechnologicalrequirements in the implementation in classroom teaching.
- Introduction of need-based new programmes in the UG/PG/Certificate / Diploma levels

❖ **Research and development**

- Promotion of research among the faculty by providing the research ambience in the departments;
- Upgradation of all the Post Graduate Departments into research departments to offer M.Phil. and Ph.D. programmes
- Encouragement and support to secure funding for research projects from leading institutions.
- Upgradation of the laboratory infrastructure and instrumentation facility to high standards in the past 5 years. National College Instrumentation Facility (NCIF) is a standing example state of the art facilities, well beyond the standards of collegiate level.
- Publication of research findings in the National and International Journals and presentation of papers in workshops/conferences and Seminars.
- Promotion of research collaborations leading to acclaimed publications.

Invitation of experts from the academia and industry to further motivate, and enrich the programmes under implementation in the campus targeted to transform the College from the status of 'College with Potential for Excellence' to the 'College of Excellence'.

❖ **Community engagement**

Orientation of every student to 'serve the nation by serving the local community' is the guiding element of the college in community engagement. For this, students are encouraged to

take active participation in extension activities, which is the Part V of their curriculum, carrying relevant credits and grades.

❖ **Human resource planning and development**

National College strongly believes in the strength and value of human resource in building a grand institution,. The initiatives in Human Resource Management include:

- Faculty is considered as an asset and therefore, recruitment of sincere teachers, excellent researchers with an inclination for community service are the priority for the College.
- The college encourages and supports the faculty members to upgrade their knowledge levels and to update their skills by attending workshops, conferences and seminars within the state, Nation or even abroad. Special incentives are provided in recognition of their achievements
- The college extends support to faculty in organizing State-level, National –level and International workshops, Seminars and Conferences and thereby acquire leadership qualities, skills and experience in resource management.
- The college promotes students participation in all the academic and extension activities to leadership qualities and team skills among them.

❖ **Industry interaction**

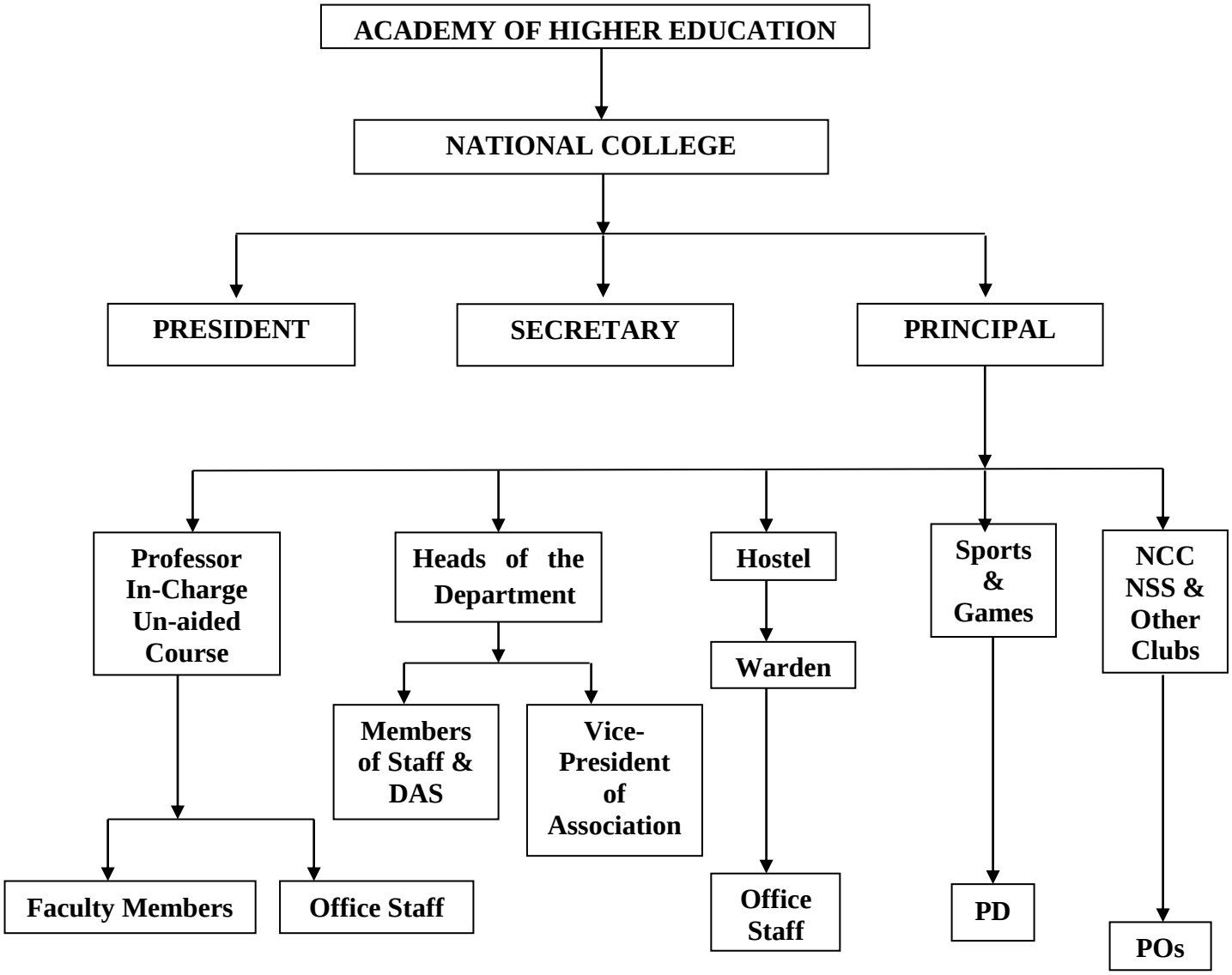
- Nomination of experts from industry and trade to the Board of Studies to facilitate the updating of the syllabi in tune with the latest developments and the requirements of the industry.
- Signing of MoU with the industries in order to bridge the gap between knowledge acquisition and employment opportunities.

❖ **Internationalization**

- ★ Updation of knowledge and skills for the faculty are indispensable for the constant growth and development for the College. Hence, the College promote and encourages faculty participation in International Conferences, Workshops and Seminars by providing incentives.12 Teacher have attended conference/seminar/workshop abroad in the last four years.
- ★ International Collaboration in research and training
- ★ To invite international students for admissions into various programmes in College and to prepare grounds for a competitive International Teaching & research programmes.

6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.

General Administrative Mechanism of the College is shown in the chart below



The College has an efficiently functioning mechanism to monitor and Co-ordinate the multifarious functions of the College.

General Administration

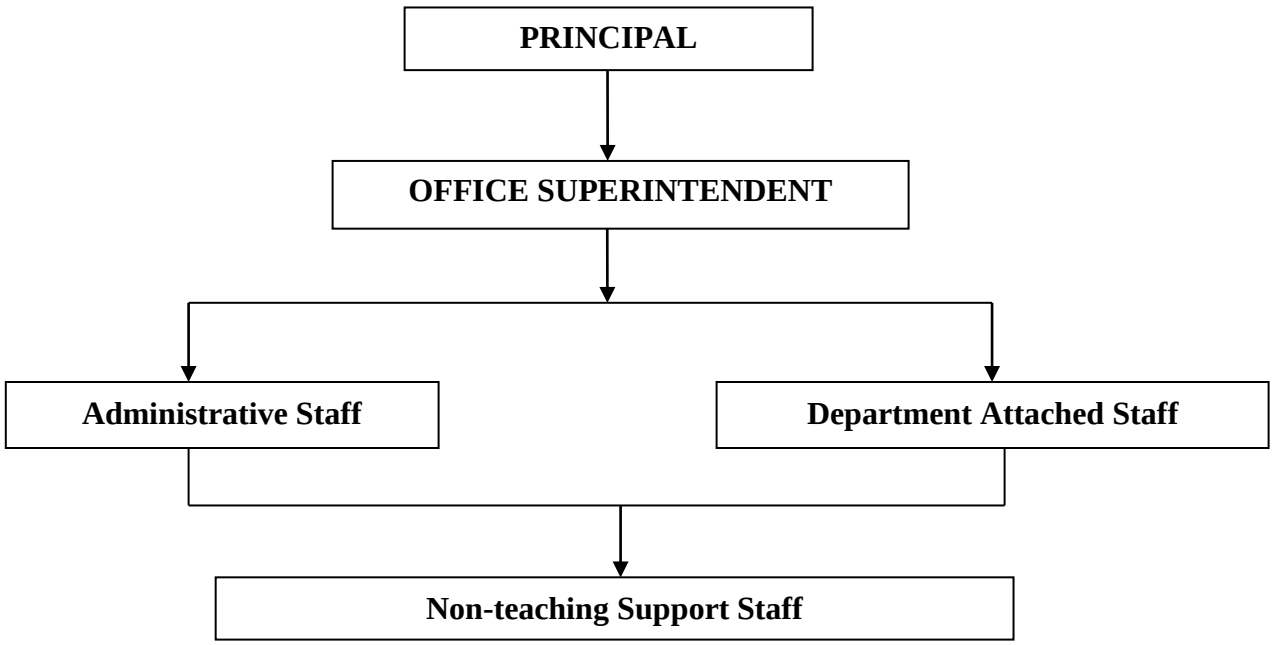
There is a College Committee **Annexure 6.1** consisting of members of the Managing Committee, Principal of the College, two senior professors and a University nominated representative as per the provisions of the TNPC ® Act, 1976. This is the apex body, which takes decisions on appointments, affiliation for new courses, provision of infrastructure for the college including purchase of equipment, additional construction and all such matters of

administration. Padma Vibhushan Dr.V.Krishnamurthy, Former Chairman, National Manufacturing Competitiveness Council is the President of the College Committee at present **Annexure 6.2**.

The Secretary of the Governing Council is also the Secretary of the college committee. Thiru. K. Raghunathan, is the Secretary of the College Committee at present. The Principal is the head of the institution and he acts as a connecting link between the staff and the management.

The Principal is in charge of the day-to-day academic administration of the college, assisted by a Professor-in-charge to look after the Un-Aided Courses.

Administrative Set-up of the College



- The Principal co-ordinates and monitors the working of the various departments through the Heads of the departments and office superintendent.
- The Heads of the departments co-ordinate and monitor the work of the departments.
- The Principal co-ordinates and monitors the work of the Un-aided Courses through the Professor in-charge.
- The Professor in-charge of the un-aided courses co-ordinates and monitors the work through the staff of various departments.
- The office superintendent monitors and co-ordinates the office work and the work of all the supporting staff.

- The Principal monitors and co-ordinates all the extracurricular activities of the college through the staff in-charge of respective activities.
- There are several committees in the college such as the Library Committee, the Sports and Games Committee etc. These committees discuss and monitor the activities assigned to them. The conveners of these committees co-ordinate the activities to which they are in-charge.

The college managing committee periodically reviews the performance of the college through the reports of the Principal and monitors the progress of the institution

6.2.3 Specify how many planned proposals were initiated/implemented, during the last four years. Give details.

S. No.	Planned Proposals	Proposals implemented
1.	Upgradation of UG Departments to offer PG programmes	M.Sc. Zoology
2.	Upgradation of PG Departments to offer Research programmes	M.Phil. and Ph.D. in Biotechnology, M.Phil. in Zoology Ph.D. in Physical Education M.Phil. and Ph.D. in Computer Science
3.	To offer need-based career oriented programmes	M.Sc. Biotechnology (2011) PG Diploma in Bioprocess Technology (2013) PG Diploma in Clinical Trial and Regulatory Affairs (2012)
4.	To establish a common research facility	NCIF – National College Instrumentation Facility was established in the year 2012 with AAS, HPLC, GC-MS, FT-IR, SEM-EDX, Micro-hardness Tester, Flourescence Spectrophotometer, Flow Cytometer
5.	To centralize the library and modernize the facilities and services	Renovation of the earlier Saranathan Block into a modern library for both Arts and Science faculty; provision for board meeting, AV-Theatre, Computer Centre, copier facility
6.	To build state-of-the-art indoor stadium	Indoor stadium with the dimension of 80mX100m has been constructed

7.	To build gallery for the outdoor stadium and restore the facilities of the College grounds	New gallery has been built
8.	To renew and refurbish the Boys hostel	Boys hostel has been renovated.
9.	To construct modern girls' hostel within campus	Girls hostel was constructed and dedicated to serve the institution from 2012 onwards
10.	To provide drains for the entire campus to prevent from flooding during the monsoons	Drain trench has been constructed in part of the academic campus. The rest of the facility is expected to be constructed in the next phase
11.	To shift the Un-aided programmes from the hostel buildings to the academic campus	Un-aided classrooms and departments functioning in the hostel campus was shifted to the new class room building in the year 2012
12.	To provide campus-wide high speed wifi internet for the students and faculty	The entire campus and the hostel has been brought under the high speed wife internet connectivity and the works are in progress
13.	To renovate UG and PG laboratory of Chemistry Department	UG and PG laboratories of the Chemistry department was renovated and modernized in the year 2014 and 2015 respectively.
14.	To provide projector facility for most of the classrooms	All the classrooms of Botany, Geology, Computer Science and Biotechnology have been provided with LCD projector. Remaining classrooms will be provided with LCD projector in a faced manner.
15.	To create a facility for the visually challenged	A facilitation centre has been created for the visually challenged students in the campus in the year 2015.
16.	To conduct Academic Audit as a SWOT analysis	Academic Audit is conducted with external experts.
17.	To elicit Feedback from the students	Feedback is collected from the students on various aspects of the College.

6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

No. But the quality policy of the College is formulated in accordance with the Vision and Mission Statements of the College. The College has developed the following mechanisms

to design, deploy and review the quality policy.

- **IQAC** monitors and records all the academic and extension activities to ensure quality in Teaching-learning, evaluation, research and extension activities.
- Board of Studies in every department is formed by pooling the experts from Academia, industry, Alumni etc. to ensure the quality of the programs offered.
- Academic activities are governed through Deans of Arts and Science for quality sustenance and improvement.
- **Academic Audit**is conducted to monitor the progress and evaluate all the academic and extension activities in every department. It is done by a team of experts for each department, from Universities in Tamil Nadu and Pondicherry.
- Teaching –learning is evaluated through the process of Feedback from the students
- College News bulletin published twice in a year and College Magazine published annually record all the important events and accomplishments. They are quite useful for monitoring and review of the activities of the college.
- Various committees such as Garden maintenance, Disciplinary Committee, Grievance Committee, women's cell, Career guidance and placement cell, Library, sports, fine arts, quiz etc. function under the chairmanship of the Principal, These committees take care of quality in their respective functional areas.

6.2.5 How does the College ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

The Principal is readily and easily accessible to students and staff. Minor grievances brought to his notice directly or through Heads of Departments are immediately resolved.

Boxes for complaints and suggestions are placed in multiple points in the campus. Periodically, the boxes are checked. Grievances are evaluated by the concerned committee and remdial action is taken at the earliest

At the Departmental level, complaints and grievances are resolved by the Heads of Departments. Complaints and grievances which require intervention at the higher level are reported to the Principal.

On academic matters, the Principal with the Academic Council and IQAC, review whatever grievances are brought to the attention of the Principal or Management.

6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes.

The IQAC of the college obtains feedback from the students on teaching, learning, evaluation, infrastructure, student support services and campus environment, at the end of each academic year.

The feedback from the students is analysed and appropriate remedial measures are taken. The feedback serves as a crucial input for evaluation and control of various dimensions of the institution.

6.2.7 In what way the affiliating University helped the College to identify the developmental needs of the College?

- National College is an autonomous institution affiliated to the Bharathidasan University in Tiruchirapalli. The University helps the administration by nominating its representative to the Management Committee as well as the Governing Council of the College.
- In order to ensure quality standards, the University has nominated 4 representatives to the Academic Council.
- Affiliation to new programmes is granted by the University only after an Inspection Committee carries out an inspection of the facilities and evaluation of the staff requirements. The inspection process ensures that all the requirements of the programme are fully met.
- A Triennial Inspection Committee constituted by Bharathidasan University also inspects the Academic, Research and infrastructural facilities available in the college.
- University also nominates subject experts for all the Boards of Studies.
- All the proposals submitted to UGC, DST, CSIR and funding agencies are duly forwarded by the University.

6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, In what way College is benefitted.

Yes.

- Bharathidasan University has a functional College Development Council and it is named Council for College and Curriculum Development. The Council directly provides valuable

academic inputs to the college through the following means.

- Offering guidelines regarding curriculum development,
- Granting Research Advisorship to faculty in the College to serve as research guides for M.Phil. and PhD programmes
- Granting of research approval to College/department as research centres,
- Granting affiliation to new programmes, permission for additional sections and seats to the existing programme (UG/PG)

6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized?

College obtains feedback from all its stake holders through formal as well as informal means.

- Feedback from the teaching faculty is collected by the Principal through the respective Heads of the Departments. The feedback is analyzed and used as a valuable input for decision making. Further, based on the analysis, appropriate measures are taken. The results of the analysis are also brought to the notice of the management. All necessary steps are taken to resolve issues revealed by the feedback and implement worthy, suggestions
- The Principal, Secretary and Staff interact with the alumni who visit the college. Feedback from the alumni is obtained informally during their visits to the college and during the Annual Alumni meet held on the 1st Sunday of February every year.
- Parents are encouraged to voice their opinions during the Parent –Teacher Meets. Their feedback presents valuable information from their perspective The Office staff take note of their feedback which enable informed decision making on matters concerning student welfare, expectations of parents etc..

6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?

Each department enjoys complete autonomy in academic matters. Subject to compliance with overall work load and common criteria such as number of courses, the departments are given complete freedom in the formulation of syllabi, conduct of seminars and workshops and research activities. The Principal reviews the activities of the department and results. The Heads of Departments ensure that the performance of the departments is in tune with the overall goals of the institution.Corrective action is taken when deviations are noticed.

6.2.11 Does the College conduct performance auditing of its various departments?

Yes.

- The College reviews the performance of every department for its academic, research and extension activities every year through an academic audit programme. The academic audit of each department is conducted by a two member expert team. The experts are from other Universities and Colleges in Tamil Nadu.
- IQAC is the coordinating agency of the academic audit programme.
- The experts of the Academic Audit team interact with students, faculty members, evaluate the performance of the departments on the basis of a variety of criteria and submit a report to the Principal through IQAC, giving comments and suggestions for the improvement.

6.3 Faculty Empowerment Strategies

6.3.1 What efforts are made by the College to enhance the professional development of teaching and non-teaching staff?

- The College is very keen on facilitating the professional development of the teaching and non-teaching staff for delivery of efficient service to the students and the community. In this regard, following steps are being taken.
- Faculty members are encouraged to participate in workshops, conferences and seminars within India and abroad to update knowledge and skills. For this, College management provides incentives. Faculty members participating in overseas seminars are rewarded with a cash incentive of Rs.10,000.
- Incentives are provided to obtain extramural funding for research in emerging trends and technologies.
- College encourages the faculty to serve us Resource Persons in Seminars, Workshops, Meetings and Courses conducted by reputed institutions and grants them On Duty.
- College encourages faculty members to participate in orientation programmes, refresher courses and other faculty development programmes conducted by Universities across the nation.
- Faculty members are motivated to publish papers and present their research findings in Conferences/Seminars/Workshops at National/International/State level.
- College also publishes all the research papers and articles of the faculty members in to one consolidated book every year.

- Achievements of the faculty are promptly reported the College News Bulletin and College Magazine published once in every semester and year respectively.
- The Secretary of the College takes pride in the accomplishments of the staff. He makes it a point to convey his appreciation immediately on their achievements and posts the matter in face book on a daily basis. The personal touch is a source of immense satisfaction and a trigger to do more. The assurance of recognition provides impetus for professional empowerment.
- Non-teaching staff are periodically given orientation programmes to motivate them serve the students and faculty with a smile.
- Non-teaching staff are trained on computer skills. They are encouraged to improve their academic qualification and job skills and volunteer for new, challenging assignments.

6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

The performance appraisal reports obtained from stake holders are analyzed critically by the Principal and the Management. Staff members who are found wanting is advised to improve in specific areas such as teaching methodology research etc in their own interest as well as institutional interest.

After review, in general, Faculty members are persuaded to

- Pursue research activities
- Publish research papers and articles
- Forward proposals to UGC and other funding agencies for Major and minor research projects,
- Organize Conferences, Seminars and workshops
- Use ICT mode of teaching
- Conduct Webinar and teleconference in the respective subject area.

6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- College Management makes payment of advance salaries to Teaching and Non-teaching staff when the salary from the Government or any project scheme is delayed. This magnanimous gesture has been greatly appreciated by the faculty members.
- Festival loans to non-teaching staff have greatly helped almost all the staff (at least 85%)

- Teaching and non-teaching staffwho have put in 25 years of service are honoured by the management and presented with mementos.
- Retiring Teachers are honored and facilitated for their service at the time of retirement.
- Teaching faculty are rewarded with incentives for book and research publications, Ph.D. awards produced, conferences/seminar/workshops organized and major/minor projects obtained. Gift Cheques are presented to those who go abroad to present papers in International Conferences/Seminars etc. There has been steady improvement in the active participation of staff in all these activities. Over 45% of staff have been benefited through this scheme.

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

- Support for Research
- Good working environment
- Recruitment on merit
- Outstanding students are appointed as staff
- Retired teachers are re-employed
- Retired Non-teaching staff are re-employed.
- Avenues for personal growth are provided in the form of higher posts such as Heads of Departments, Deans, Controller of Exams, coordinator of Events.etc.
- The teachers are recognized and rewarded on the last day of every semester for their outstanding contribution during the semester
- The teacher friendly attitude of the management is a strong factor which attracts eminent teachers and develops an attachment to the institution.

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

- No specific gender audit has been conducted in the college. However, the college has ensured an atmosphere of cordiality, and comfort to girl students and lady staff. There have been no instances of harassment, eve teasing etc.
- Year wise girl students member
- National College is a safe haven for the girls as well as lady staff. There are 1079 girls students and 71 girls staff

6.3.6 Does the College conduct any gender sensitization programs for its staff?

There is a Gender Club in the College which conducts Gender Awareness Programme regularly.

A women's cell is functioning in the college. It takes care of issues of grievances and welfare of the women in the college. The activities pursued by the college to promote wellness of women include the following:

Celebration of Women's day in grand manner: Competitions are held for girls and lady staff and prizes are distributed.

Women Achievers in the region such as SP, DSP, District Collector, Chairperson of CII Principals of Colleges are invited to address girl students. As these achievers usually come from a similar background, their words carry conviction.

Meetings are held exclusively for girls under the aegis of NSS on issues like health, hygiene, wellness, stress management etc. These meetings are quite useful to the first generation learners who come from a rural background and badly in need of timely advice and encouragement.

Medical camps and awareness programmes on women's have been conducted for the benefit of our girl students.

NSS and NCC units of our college have conducted rallies for creating awareness for saving the girl child, regarding the prevention of cancer and other issues related to women welfare.

Gender Studies is offered as course at the UG level to help a better understanding of the role of women, to overcome inhibitions and prejudiced, and sensitizing our students on gender issues.

6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

- Our staff members have attended orientation programmes with great enthusiasm. The programmes had facilitated a clear understanding of learner psychology and student requirements. They have helped immensely to improve the communication skills, and fine tune the pedagogic skills to match the aspirations and capabilities of the learners. The orientation programmes have moulded our teachers teacher into a fine shape early in their career.

- The refresher programmes have reinforced their knowledge and research capabilities-especially the statistical validation of results in the respective areas. The programmes have enabled out teachers to interact with experts, share the latest in the field and clarify crucial issues.

- 01Staff attended orientation and 27 staff refresher course during the last four years.

- It is gratifying to record that many of our faculty members serve as resource persons in orientation as well as refresher courses.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

College has a formal mechanism to monitor the effective and efficient use of the financial resources.

- The College has Finance Committee and Purchase Committee.
- At the beginning of the Academic year the allocation for departments are decided in the meeting of HODs. The HODs call for three quotations from the suppliers of equipment, books and journals, prepare a comparative statement and forward it to the Principal. The College office prepares purchase order.
- Whenever grants are received from UGC, Principal calls for a meeting of HODs and allocates fund for various department in consultation with the HODs.
- Annual Financial Statement is prepared every year and submitted to JDCE and AG office.
- A Purchase Committee under the chairmanship of the Principal rationalizes the purchases of major equipment. It ensures that the resources are put to use in a cost effective manner.

6.4.2 Does the College have a mechanism for internal and external audit? Give details.

Yes, the College has a mechanism for internal and external audit with regard to financial resources.

- The finance section in the office maintains the accounts and prepares the Financial Statements (FS)for every financial year. The FS is submitted to RJDCE and AG office.
- College auditor audits all the accounts and issues UC and SE.

- External audit is conducted by the Regional Joint Director of Collegiate Education of Tiruchirapalli, Tamil Nadu. The audit team reviews the accounts for certification and submits its reports.
- Accounts General office also conducts audit the accounts annually

6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.

The audited income and expenditure statement and other administrative activities are given in **Annexure 6.3.**

6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

Yes. All the accounts are audited regularly. The audit objections and compliance report are given in **Annexure 6.4.**

6.4.5 Narrate the efforts taken by the College for resource mobilization.

National College raises its resources through the following avenues:

- Collection of Tuition fees, Admission Fees Special Fees, etc from the students
- Getting Grants from UGC under different schemes like Plan Block Development Grant, BSR, Autonomy, CPE and so on.
- Getting Grants from other agencies such as DST, DBT, MOES etc.
- Consultancy charges from industrial and other organizational partners
- Contributions from well-wishers and Alumni
- Testing fees generated by the Testing facility

6.4.6 Is there any provision for the College to maintain the 'corpus fund'? If yes, give details.

Yes. The College has a corpus fund of Rs. 1,00,00,000/- .The interest earned is mainly used for white/colour washing and for minor repairs of the building.

6.5 Internal Quality Assurance System

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

- Academic audit of every department, coordinated by IQAC of the college is conducted annually by a separate team for each department. The team consists of two senior faculty experts from renowned universities and colleges of Tamil Nadu
- The experts interact with students, faculty members and evaluate the multiple dimensions of performance of the department and submit a report to the Principal .The report includes comments and suggestions for the improvements.

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

Based on the recommendations of Academic Audit, the following specific measures have been implemented.

- Remedial Coaching classes for the slow learners
- Provision of job- or career oriented programmes in all the UG / PG programmes
- Extension of library hours beyond college working hours
- Provision of Wi-Fi facility for students
- Conduct NET/SET coaching classes for PG students
- Seminar by students through PowerPoint presentation.
- Assignments

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

No. However after the publication of end semester examination results Principal sends the details of percentage of pass in each class to the respective HODs and ask his clarification if required.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

The IQAC takes care of quality sustenance and enhancement.It has contributed significantly to the quality of the Institution by following means.

- IQAC meets twice a year. It reviews the implementation of the plans during the previous semester and finalizes plans for the ensuing semester.

- IQAC arranges for the conduct of Academic Audit of the departments.
- Collection of feedback from students on teaching-learning, evaluation, infrastructure, and campus environment and its analysis for further action.
- Documentation of academic, co-curricular and Sports activities, Research and all other development activities are carried out by the IQAC.

6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes. IQAC has three external members on its committee.

External members take active part in brainstorming the quality enhancement. The following improvements have been carried out based on their suggestions.

- Improvements in the methodology of the conduct classes for NET/SET/IAS aspirants(
- Provision of high speed internet connectivity in the campus
- MoU with industries by all the Departments
- Additional courses with extra credits
- Literary Forum

6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

No.

- But majority of students of our College come from disadvantages sections. The value addition from entry to exit is an indicator for the incremental academic growth of students.
- Considerable efforts have been taken to improve the performance of slow learners.

6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

College has developed mechanisms and methods to monitor and review the working of the administrative and academic departments.

Besides this,

- Principal regularly meets the Heads of the Departments and reviews the working.
- Staff meetings are held in every department to review the working and finalise future work arrangements.

- Principal, Deans of Arts and Science, and the Controller of Examinations periodically meet to take decision pertaining to teaching plan and performance, exam schedule, assignment submission deadlines, fee payment etc.
- Academic audit is being conducted regularly on yearly basis to evaluate the performance of the departments by a team of experts in the relevant field.
- Feedback is being collected from the stake holders and appropriately analysed for formulating action plan.
- There is a Research Committee in the College with frame policies and review Research activities.

Additional information regarding Governance, Leadership and Management.

- The administration in the College has been properly decentralized for the effective functioning.
- All the stakeholders are consulted before taking any major decision.
- College takes all the necessary steps to obtain grants from UGC, DST and other funding organizations.
- IQAC documents all the activities of the College.
- Teaching and researches aregiven equal priority in the College.
- Academic Audit is conducted every year inviting external experts in the respective subjects.

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Cr. VII – Innovation & Best Practices

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CRITERIA VII: INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the College conduct a Green Audit of its campus?

Yes, the College conducts a Green Audit of the campus and takes steps for preservation of the environment. The college is acutely conscious of the need for protecting and preserving the environment. None of the practices adopted is hazardous to environment. The college boasts of a beautiful well-manicured gardens and well grown trees. Maintenance work is done regularly to protect eco-system within the campus. Saplings have been planted and cleanliness is maintained. The college maintains a green, clean, serene campus filled with good air and free from any pollution. Tree plantation camp is organized every year by the NSS, NCC, YRC units of the College. The services of menial staff are utilized for the maintenance of the garden.

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?

The campus is maintained eco-friendly by the persistent activities of the Garden Committee and the voluntary action of our NSS students.

- **Energy conservation**
  - All the classrooms and the staff rooms are well lit and ventilated to avoid total dependence on electricity for room lightening and air circulation
  - Wherever possible, LED lights have been used to conserve power.
  - Electronic chokes have been commissioned to save power
  - Students are sensitized to conserve electricity and act judiciously during their stay in the campus.
- **Use of renewable energy**
  - Plans are underway to erect the biogas plants and solar panels for the canteen, girls hostel and boys hostel
- **Water harvesting**
  - Rain water harvesting is done effectively at various points in the College and the hostel campus. Water conservation slogans are put up near the water faucets.
- **Check dam construction**
  - Check Dam construction is not required in the premises
- **Efforts for Carbon neutrality**
  - College campus and the hostel campus are maintained under greenery to promote carbon neutrality and to contribute to the cleaner environment
  - Campus is litter free and burning of dried leaves and materials is prohibited

❖ **Plantation**

- Thicker vegetation is grown in the campus, wherever possible, to provide proper shade and mitigate the effects of high temperature levels
- New gardens are being created and landscape is modified from time to time for better green view and sensitization of students to the beauty of plantation
- Tree saplings are planted within the campus and elsewhere by promoting the plantation projects under the auspices of NCC, NSS and other social service clubs
- Gardens within the premises are well maintained by the gardeners and menial staff

❖ **Hazardous waste management**

- Chemical waste produced in the laboratories of life sciences and chemistry are duly decontaminated.
- National College is a plastic free campus and littering is prohibited in the campus.
- Fume hoods are used wherever necessary and provisions have been made in all the laboratories that regularly require such handling.

❖ **e-waste management**

- The College does not generate e-waste. Computers and other electronic gadgets are replaced when they are dysfunctional or not at optimal level of efficiency. Such old gadgets are sold out as wasteto contribute towards the purchase of new equipment.
- UPS electronics and the associated batteries are exchanged for new units under the buy-back scheme.

❖ **any other**

College promotes 'Reduce-Reuse-Recycle' philosophy wherever possible. To mention a few, plastics have been replaced slowly in a phased manner by the paper alternatives that are carried to the decomposition pit to convert them into biofertilizers. One side-printed - copier sheets are also not wasted the other side is also used for internal requirements, rough work etc.

7.2 Innovations

7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

- A wide range of high-end analytical instrumentation facility has been commissioned as 'National College Instrumentation Facility' (NCIF). It has resulted in the increase in the number of publications of the staff and also their citation index / impact factor over the years

- The operations of the Controller's office have been digitalized with appropriate software for all its day-to-day activities. This has enabled paper-less applications for exams.
- Entry of Internal marks is made through LAN and integrated with Deans' office and Controller of Examinations' Office. This system has avoided duplication of work and enabled paper less internal mark submission.
- In association of the State Bank of India, arrangements for online payment of all fees- College fees, examination fees, hostel fees and others (conference/workshop registration) have been made for hassle free and prompt services.
- Laptops, LCD projectors, audio systems are provided to all departments for the improvement of teaching and learning process.
- High speed Wi-Fi-internet facility is made available to all the students and staff within the campus and the hostel. There is more awareness about the e-resources and facilities available.
- Online OPAC (Open Access to library Catalogue) through the College web portal has enabled access to the library catalogue from any other place for the selection of books for borrowing.
- College publications such as the Newsletter and the magazine are designed and printed on par with any other high class magazine to promote their reach and create a good image.
- College has commissioned an exclusive facilitation Centre for the visually challenged students and scholars of not only the National College but also others.
- Endowment Lectures: A series of endowment lectures are being organized by the College drawing eminent personalities, celebrities and researchers of National Importance to address the students.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.

1. Title of the Practice - I

TUTOR-WARD SYSTEM – Proven Method to Mentoring

2. Objectives of the Practice

- To improve the personal rapport between teacher and the student
- To ensure that student gets the benefit of continuous mentoring throughout the programme;
- To identify the strengths and weaknesses of the wards and help them improve the former and overcome the latter;

- To promote participation of the parent/guardian in the academic progress of their ward and keep them informed about the same.
- To provide support in developing employability skills based on the aptitude of wards;
- To help the wards improve their confidence level and enhance their personality.

3. The Context

A significant percentage of students of the college are first generation learners. They hail from humble backgrounds and generally found short of the right orientation and motivation. It was found that even bright students fail to take optimal advantage of the resources and opportunities offered by higher education in general and National College in particular, in the absence of guidance and motivation. An acute need to provide appropriate support to them was felt by the Principal and faculty members. The Tutor ward system has been conceived as a method of handholding our students from not so fortunate background so as to help them use the resources to their advantage and derive the benefits intended for them.

4. The Practice

Under the tutor ward system, a batch of students, not exceeding 20 is assigned to a professor on their admission to I Year U.G/ P.G programmes. The professor is designated as tutor and entrusted with the responsibility of mentoring the students throughout the duration of the programme. The idea is to build a good rapport between them so that boys can get personal attention and the teachers can understand the students and their requirements thoroughly. The wards meet the tutor individually after a common first meeting where the basic theme of the system and the role of the wards are explained. The students are assured of assistance and guidance on all matters relating to their welfare. The wards meet the tutor at least twice in a month. Frequency of meetings is decided by the needs of the students and the tutor adopts an open door policy. A counseling record note is prepared for each student. It contains vital information about the student. His academic performance in tests, attendance and details of assignment submission are recorded in the note. The tutor gives his comments and records his suggestions. Parents/ guardians are informed of the performance and progress; and their signature is obtained in the note.

The tutor makes an evaluation of the wards capabilities, skills, aspirations and aptitude. He counsels him on the steps to be taken for achieving his goals. For instance, a student who wishes to take to teaching is counselled on teacher education, courses to be studied, requirement of the job etc.

5. Evidence of Success

The guidance and motivation of the tutors had helped them to take advantage of the resources at their disposal. The handholding of the wards from not so fortunate backgrounds had helped our students develop self -confidence. There is a discernible and favourable change in their behaviour, attitude and even body language. Students evince more interest in the courses and class room interaction had improved. They have realized that taking the education process seriously would place them well in life. The inhibitions and fear in approaching the teacher for clarification or advice have been replaced by confidence and enthusiasm. The quality of assignments and the performance of the students in group discussion and interviews have improved. Participation in extracurricular activities has also improved. The close rapport built through interaction had enabled the tutors to mould their wards well. The tutors also have a sense of gratification in helping their wards. Parents have expressed their appreciation of tutors.

6. Problems Encountered and Resources Required

The system was widely accepted by the teachers and they were willing to do their best to help the boys and girls. A few teachers who were not quite enthusiastic were persuaded to take up the assignment with an open mind and give it a trial. The size of the batch of students was limited to a maximum of 15. But in some departments it had to be increased to 20 in view of higher student strength. The challenge was to make the students understand the importance and value of the system. In course of time, the teachers were successful in making the wards realize the advantages. A record of the performance and progress was designed so as to introduce a sort of rigour in the process.

Fixed schedules for interaction envisaged initially ran into practical difficulties and hence, flexibility was permitted. Interaction duration is based on the needs of individual students. Tutors were counselled to lend their ears patiently to the wards to have a good understanding of their challenges.

The most important resource required for the success of the system is a dedicated team of teachers who are ready to put in their best for the benefit the wards and the college has no shortage of such teachers.

7. Notes

Students, parents and teachers feel highly satisfied and motivated about the Tutor-ward system. They extend their fullest cooperation in the execution of the scheme.

1. Title of the Practice - II

NCIF – Research Booster

Excellence in academics- teaching-learning-research in Science is achieved by the state-of-the-art sophisticated equipment, various workshops and support facilities. These equipment and facilities help the faculty, research scholars and students to carry out globally competitive R & D in basic and applied sciences. Since individual researchers in the science departments may not be able to generate huge research funds for the research instruments, National College established a common instrumentation facility for the use of In-house researchers and others from outside. The facility consisted of all the major exclusive high-end world-class analytical equipment imported from different parts of the world – Scanning Electron Microscope (SEM) with EDS, Gas Chromatography-Mass Spectrophotometry (GC-MS), Atomic Absorption Spectroscopy (AAS), Fourier Transform Infra-Red Spectroscopy (FT-IR), Flow Cytometer, Fluorescence Spectroscopy, High Performance Liquid Spectrophotometer (HPLC) etc.

2. Objectives of the Practice

1. To facilitate in-house research faculty to carry out research at the global front at an affordable cost and service within the campus to save time in the completion of research
2. To bring all the high-end advanced analytical equipment under one-roof and maintenance that is accessible to all the faculty within the campus
3. To foster interdisciplinary, progressive, collaborative and productive research establishing centres of excellence in the chosen areas of research
4. To serve researchers and industries from around the state of Tamil Nadu and away on consultancy basis to generate monetary fund to sustain the maintenance expenditure for the equipment / facility.
5. To expose students of UG/PG programmes to understand the instrumentation, principle and application of every equipment either as a practical or a demonstration

3. The Context

Research in Science is valued based on its application and publications. A researcher is valued upon the citation index, H-Indices and Impact factor for his research publications. For an appreciable publication, it becomes mandatory to follow globally accepted methodologies that usually involve processing of the sample through sophisticated equipment that are renowned for accuracy and good practices. Establishment of such a research facility under one roof in the name of NCIF was not without challenges.

Challenges

1. Single ample space for housing the entire range of equipment under one-roof
2. Finding the correct person as a technical personnel to handle all the equipment or most of the equipment who would undertake the sample processing, data processing and also maintenance of the facility and the equipment.
3. Mobilizing the fund to purchase costly equipment was a major challenge.

4. The Practice

National College has a unique set up in terms of the faculty who are involved in different areas of research in Geology, Biological Science including Biotechnology, Physics and Chemistry. They all face a common problem of processing their samples for high analytical experiments. Therefore, the College could think of only one solution of establishing a common instrumentation lab facility where, high-end analytical equipment could be brought within the access to the researchers.

Uniqueness of the facility

Establishment of the facility in a College, with the existing range of equipment was entirely unique in the region of Tamil Nadu. Trichy is considered as an educational hub in the central part of the State with Bharathidasan University being the affiliating university for the Colleges around the place. However, there were no such facility existing for a researcher who wants to publish research articles in high impact journals in the area of advanced Sciences. NCIF has served hundreds of researchers and scholars from the Post Graduate level to the Post-Doctoral level, coming from as far as the extreme ends of the State. Approach to make use of the facility has been made simple and easy through single window clearance method that has been found most successful method of operation as an extension facility.

Limitations

There were many stumbling blocks in the execution of the project of providing access to research needs. This included, finding an overall coordinator who could look after the facility taking responsibility and special interest in the maintenance of all the equipment.

As and when an equipment was being added to the facility, arranging for a demonstration and knowledge dissemination regarding the ‘safe operation protocol’ was a challenge in the execution of the task.

Streamlining the mode of usage by researchers within and outside the campus was harder in terms of fixing service charges that would at least contribute for the maintenance of the equipment on a long run.

5. Evidence of Success

Since the establishment of NCIF, there has been visible change in the research scenario in the College and the region as well. With a wider range of analytical equipment stationed under a single roof, many researchers have made high impact journal publications. Every request and sample processing application form has been filed, that shows a significant increase in the number and quality of research publications.

For instance, in the past four years,

- number of publications have increased from 98 in the year 2011-2012 to 177 in 2014-2015.
- High impact research articles have fetched higher number of funded research projects. There are now 7 on going major research projects in the present academic year when compared to none in the year 2011-2012.The on-going major projects are funded by UGC, DST-SERB, and MOES etc.
- Number of Ph.D. produced have increased from 14 to 20 in the academic years 2011-12 and 2014-15 respectively.
- Similarly, Number of M.Phil. produced have increased from 55 to 149 in the academic years 2011-12 to 2014-15 respectively.
- Number of faculty who does research in the campus have gradually increased in the last four years.
- Number of enrolment for M.Phil. programme have increased from 103 to 203 in the years 2012 and 2015 respectively.
- 9 staff members in the College have obtained Ph.D. degree in the year 2015-2016 when compared to 5 teachers in the year 2011-2012.

6. Problems Encountered and Resources Required

Establishment of an analytical facility and its rigorous maintenance were not without problems. Shortage of funds for the continuous maintenance of the facility itself is considered a major limitation.

7. Notes

Thousands of researchers including PG students, MPhil, PhD scholars and faculty members of various institutions near and far, have benefited from the facility. They have clearly expressed their immense satisfaction in the services rendered to them.

College has also made some decent revenue out the NCIF consultancy services that is made available for the maintenance of the valuable equipment under the facility.

Evaluative Report of the Department of

Biotechnology

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DEPARTMENT OF BIOTECHNOLOGY

1	Name of the Department & its Year of Establishment	:	PG & Research Department of Biotechnology / 2011
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	M.Sc., M.Phil. and Ph.D.
3	Interdisciplinary courses and departments involved * PG. Diploma in Bioprocess Technology (UGC Innovative Programme) / Biotechnology * PG Diploma in Clinical Research and Regulatory Affairs / Biotechnology & Consortium Clinical Research Pvt. Ltd.		
4	Annual / semester/choice based credit system M.Sc. - Semester and CBCS M. Phil. - Semester and CBCS Ph.D. coursework - As per UGC Norms		
5	Participation of the department in the courses offered by other departments	:	Courses on Biotechnology and Microbiology are taught to the students of Botany, Zoology
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	03	03
	Assistant Professors	05	05

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. M.N. Abubacker	M.Sc., M.Phil., Ph.D.	Associate Professor & Head	Biofuel Technology, Antimicrobial Screening, Microbial Bioremediation, Aerobiology & Plant Tissue Culture, Plant Microtechniques	29 years in Botany & 5 years in Biotechnology	7
2.	Dr. S. Senthil Kumar	M.Sc., M.Phil., Ph.D., SET	Associate Professor	Microbiology, Molecular Biology, Botany, Bioremediation, Bioprocess Technology	14 years	7
3.	Dr. M.S. Mohamed Jaabir	M.Sc., M.Phil., Ph.D., NET	Associate Professor	Biochemistry, Animal Cell Culture, Molecular Biology, Bioprocess Technology	17 years	7
4.	Dr. N. Manivannan	M.Sc., M.Phil., Ph.D.	Assistant Professor	Microbiology	5 years (relieved on May 2014)	---

5.	Ms. S. Shantkriti	M.Tech., [Ph.D.]	Assistant Professor	Biotechnology, Nanotechnology, Bioinformatics	3 years	---
6.	Dr. M. Gnanadesigan	M.Sc., M.Phil., Ph.D.	Assistant Professor	Natural Products, Biotechnology	4 years	---
7.	Dr. S. Gurunathan	M.Sc., M.Phil., PGDBI, Ph.D., NET	Assistant Professor	Bioinformatics, Computational Biology. Microbial Biotechnology, Microbiology, Immunology, BioProgramming	11 years	---
8.	Mr. G. Ganapathy	M.Tech., [Ph.D.], NET	Assistant Professor	Bioprocess, Molecular Biology, Plant Biochemistry, Antimicrobial Studies	4 years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	Nil
9	Programme-wise Student Teacher Ratio	:	M.Sc. - 10:1 M.Phil. - 4:1 PG Diploma - 2:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Lab Assistant – 1(Sanctioned), 1(Filled)
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. National – 03 ∗ Dr. S. Senthil Kumar (Co-PI) / MoES, New Delhi / Rs. 44,50,000/- ∗ Dr. M. S. Mohamed Jaabir / UGC, New Delhi / Major Research Project / Rs. 15,87,000/- ∗ Dr. S. Senthil Kumar / UGC, New Delhi / Major Research Project / Rs. 13,85,000/- ∗ Dr. M. Gnanadesigan / UGC, New Delhi / Major Research Project / Rs. 16,80,000/-		
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received ∗ Dr. S. Senthil Kumar/SERB, New Delhi/ Advanced Oxidation Process and Microbial Treatment for toxicity free textile effluent disposal / Rs. 25,00,000/- Completed ∗ Dr. S. Senthil Kumar/TNSCST / Biorestoration of textile effluent polluted soil of Tiruppur region through vermistabilization and subsequent evaluation on crop plants / Rs.2,69,000/- Completed Total Grant received Rs. 27,69,000 /-		
13	Research facility / Centre with • State recognition ❖ Animal Tissue Culture facility is used by researchers from different parts of Tamil Nadu. The center has class 1000 cabinet. ❖ Dr. M.S. Mohamed Jaabir in collaboration with doctors of the region involves in Stem Cell therapy • National recognition • International recognition		

14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	76
	Monographs	:	---
	Chapter(s) in Books	:	06
	Editing Books	:	---
	Books with ISBN numbers with details of publishers	:	08
	Number listed in International Database	:	43
	Citation Index – range / average	:	---
	SNIP	:	391
	SJR	:	37
	Impact Factor – range / average	:	23
	h-index	:	40
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated	:	SEM, GC-MS, AAS, FTIR, Antimicrobial Studies / Rs. 50,000/-
17	Faculty recharging strategies * Attending National and International Workshops /Conferences /Symposiums /Seminars. * Visit to other National/International laboratories. * Workshops and Seminars organized by the department. * Webinar and teleconferencing		
18	Student projects	:	
	• Percentage of students who have done in-house projects including inter-departmental	:	2012-2013 50% 2013-2014 41% 2014-2015 100%
	• Percentage of students doing projects in collaboration with industries/institutes	:	2012-2013 50% 2013-2014 58% 2014-2015 Nil
19	Awards / recognitions received at the national and international level by		
	• Faculty 1. Dr. M. N. Abubacker / 2015 / Editorial Board Member of Global Academic Research Journals (GARJ)		

	2. Dr. M. N. Abubacker / 2013 / Fellow of National Academy of Science (FNASc) National Academy of Biological Sciences, Chennai 3. Dr. S. Senthil Kumar / 2014-2015 / Tamil Nadu State Council for Science and Technology (TNSCST) Young Scientist Fellowship 4. Dr. S. Senthil Kumar / 2013 / Best Presentation Award / ICWRE 2013, Geneva, Switzerland 5. Dr. S. Senthil Kumar / 2014 / Delivered Key Note address 3rd International Conference on Water Resource and Environmental Management ANTALYA, TURKEY 6. Ms. S. Shantkriti / 2014 / Best Presentation Award / National conference on Mathematical Modelling in Molecular Cell Biology (3M-CB2014) by NBHM, Dept. of Atomic Energy and organized by PG & Research Dept. of Mathematics & Dept. of Biotechnology, Bon Secours College for Women, Thanjavur 7. Ms. S. Shantkriti / 2013 / Best Presentation Award / National conference on Environmental Issues and Challenges Vision 2020 (En VISION 2020) organized by Dept. of Zoology (UGC-SAP sponsored), Annamalai University, Chidambaram		
	• Doctoral / post doctoral fellows	:	-NA-
	• Students 1. M. Prince / 2015 / Best oral presentation for a paper titled "Fungal Succession and diversity in Ectomycorrhizal Associations of Pinus roxburghii from virgin forest Ecosystem of Doddabetta belt of Nilgris" National Seminar on Integrated Waste Management and Energy Recovery (IWMER 2015) at Bharathidasan University, Trichy on 12th Feb 2015. 2. M. Keerthiga / 2015/ Won first prize for poster titled "Phytochemistry, Antioxidant and Antibacterial Studies" UGC sponsored National Symposium on Recent Advances in Medicinal and Aromatic Plants (NASYMP'15) at St. Joseph's College, Trichy on 5th Feb 2015. 3. S. Syed Nizar/ II M.Sc. 2012-13 / 1st prize in Paper presentation / State level Students'Seminar, Thiagarajar College (Aut), Madurai		
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. **National:** ∗ Conference titled "Stem Cell and Tissue Engineering" / Mother Cell Regenerative Center Pvt. Ltd. / 13th September 2015 / Self supported ∗ Workshop on "Bioprocess Technology" / 7th, 9th, 11th and 17th February 2015 / Self supported		

- Conference titled "Biofest 2015" / 28th February 2015 / Self supported
- Conference titled "Stem Cells in Clinical Application" / Mother Cell Regenerative Center Pvt. Ltd. / 9th March 2014/ Self supported
- One-Day Training in Bioprocess Technology 5, 10, 12, 13, 14, 17, 18 and 20th February 2014/ Self supported
- Three Days' workshop on Molecular Biology and Advanced Instrumentation Techniques / 23 - 25th January 2014 / Self supported
- Workshop titled "Science Expo" / 7-9th October 2013/ Self supported
- Conference titled "Biofest 2013" / October 1st 2013/ Self supported
- One day seminar on "Biotechnology new directions in Medicine" / 14th March 2013/ Self supported
- Seminar titled " Ethics in Biomedical Research" / Consortium Clinical Research Pvt. Ltd. /25th August 2011/ Self supported

International:

- Workshop titled "Computational Techniques for WetLab Data Analysis" / Bioknowl Insights /22 – 24th September 2015/ Self supported
- Webinar titled "Primary Cell-Culture – Tips and Techniques for getting started" / Corning Life Sciences – Scientific Seminar / 8th July 2011 / Self supported

21 Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		M	F	M	F
M.Sc. (2011-2013)	16	8	4	75	25
M.Sc. (2012-2014)	24	12	5	80	20
M.Sc. (2013-2015)	5	2	1	75	25
M.Phil. (2013-2014)	3	2	-	100	---
M.Phil. (2014-2015)	4	1	2	25	75
PGDBPT (2013-2014)	7	4	1	75	25
PGDBPT (2014-2015)	4	---	3	---	100

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	M.Sc. (2011-2013)	Nil	100	Nil	Nil
	M.Sc. (2012-2014)	Nil	100	Nil	Nil
	M.Sc. (2013-2015)	Nil	100	Nil	Nil
	M.Phil. (2013-2014)	10	90	Nil	Nil
	M.Phil. (2014-2015)	6	94	Nil	Nil
	PGDBPT (2013-2014)	35	65	Nil	Nil
	PGDBPT (2014-2015)	6	94	Nil	Nil

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	-Nil-

24	Student Progression	
	Student Progression	**Percentage against enrolled**
	UG to PG	---
	PG to M.Phil.	10%
	PG to Ph.D.	30%
	Ph.D. to Post-Doctoral	-NA-
	Employed • Campus selection • Other than campus recruitment	 --- 60%
	Entrepreneurs	---

25	Diversity of Staff	
	Percentage of faculty who are graduates	
	Of the same parent university	12.5%
	From other universities within the State	87.5%
	From other universities from other states	---

26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	---

27	Present details about infrastructural facilities		
	a) Library 1. 20,000 books 2. 200 e-books in the form of e-library maintained in the department for benefit of students		
	b) Internet facilities for staff and students	:	Wi-Fi Internet connectivity Modems – 02 HD Wi-Fi Streamer - 01
	c) Total number of class rooms	:	02
	d) Class rooms with ICT facility	:	02 (LCD Projectors – 2, Smart Board – 1)
	e) Students laboratories * Molecular Biology and Biochemistry Laboratory * Microbiology and Immunology Laboratory * Fermentation Technology Laboratory * Plant Tissue Culture Laboratory * Animal Cell Culture Laboratory * Mycology Laboratory * Animal House Facility		
	f) Research laboratories	:	-Same as above-
28	Number of students of the department getting financial assistance from College. M.Sc. (2011-2013) - 4 M.Sc. (2012-2014) - 4		
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	Discussion with Biotechnology Industries to fulfill their need in relevant human resource
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes, Incorporate their inputs/suggestions in improving the curriculum / teaching-learning-evaluation process.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes, Their suggestions were incorporated in the curriculum/ teaching-learning-evaluation process.

	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Yes, They appreciate the infrastructure facilities, staffs and overall functioning of the department.
31	List the distinguished alumni of the department (maximum 10) * Ms. Vijaya Gowri (Biotechnologist, Singapore Distilleries Pvt. Ltd., Singapore) * Mr. N. Govindarajan (Clinical Research Associate, Consortium Clinical Research, Coimbatore) * Mr. Ragul (Clinical Research Associate, Consortium Clinical Research, Coimbatore) * Ms. X. Jesintha (Clinical Research Associate, Consortium Clinical Research, Coimbatore) * Mr. S.Venkatesh (Microbiologist, Abbes Biotech Pvt. Ltd., Chennai) * Mr. S. Maniyarasan (Microbiologist, Hatsun Agro products, Pvt., Ltd) * Mr. S. Lawrence (Microbiologist, Hatsun Agro products, Pvt., Ltd) * Mr. V. Kathiravan (Quality Analyst, Biocon) * Mr. K. Naveen kumar (Quality Analyst, Biocon) * Ms. J. Durga Devi (Medical Coder, Omega Healthcare Pvt. Ltd.)		
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts The following special events were organized. 2015-2016 * Dr. Yasin Jeshima, Scientist, Division of Genomic Resources, ICAR-NBPGR, PUSA Campus, New Delhi delivered a special lecture on "Role of miRNA in Breeding of Pulses" on 14th Sep 2015. 2014-2015 * Dr. Varoon Kumar, Research Fellow, Department of Medical Biotechnology, University of Siena, Italy delivered a special lecture on "Oncolytic Viral Therapy" on 10th April 2015. * Dr. Udhaya Kannan, Post Doctoral Fellow, Department of Plant Sciences, University of Saskatchewan, Canada delivered a special lecture on "Molecular Approach for Crop Quality Improvement" on 13th January 2015. * Dr. M. Gunasekaran, Professor of Biology (Retired), Fisk University, Nashville, Tennessee, USA delivered a lecture titled "Research Opportunities Abroad" on 5th January 2015. * Dr. Senthil Vel Rajan Kaniyappan, Doctoral Fellow, AG-Mandelkow, DZNE, Germany delivered a special lecture titled "Alzheimer's Disease: Role of Tau Proteins" on 24th December 2014.		

	∗ Dr. M. V. Rao, Hon. Professor, Dept. of Plant Science, School of Life Sciences, Bharathidasan University, Trichy delivered a special lecture titled "Prospects of Plant Tissue Culture" on 8th October 2014. 2013-2014 ∗ Prospects of Plant Tissue Culture by Dr. M.V. Rao Hon. Professor Department of Plant Science, Bharathidasan University, Tiruchirappalli 2012-2013 ∗ Clinical Research and Career opportunities by Shri. P. Ananda Padmanabhan, MD, Consortium Clinical Research Ltd., Coimbatore ∗ Biotechnology-New Directions in Medicine by Dr. Dinesh Kumar Bharadwaj, Scientist E, Food and Drug Toxicology Research Centre, National Institute of Nutrition (ICMR), Hyderabad ∗ Bioprocess Technology for Biotechnology students by Dr. M. Damodharan, GM, Ranbaxy Laboratories Ltd., Chandigarh 2011-2012 ∗ Clinical Research - A New Age Career for Biologists by Shri. P. Ananda Padmanabhan, MD, Consortium Clinical Research Ltd., Coimbatore on 20th July 2011. The following special lecture programmes were conducted by Biotechnology association during the last four years. ∗ Dr. M.N. Abubacker, Head, Department of Biotechnology delivered a lecture on Primary Cell Culture – Tips and Techniques on 08.07.2011. ∗ Dr. T.H. Rao, Chairman, Spectrochem Instruments Pvt. Ltd., Hyderabad delivered a lecture on Reaction Engineering Automation of Controls on 30.08.2012. ∗ Dr. N. Sudharsanam, Asso. Prof. Dept. of Mathematics delivered a lecture on Introduction to Graph Theory on 26.09.2012. ∗ Dr. V.R. Ravi, Director, Mother Cell Regenerative Centre, Indian Medical Association's President Dr. Ashraf delivered a lecture on Stem Cells in Clinical Applications on 09.03.2014. ∗ Dr. M.K. Muralidharan, Dean, KAPV, Medical College, Trichy delivered a lecture on Stem Cells and Tissue Engineering.

33	List the teaching methods adopted by the faculty for different programmes. * Delivering lectures with the help of Information Communication Technology * Submission of Students Assignments and Seminars * Describing complex concepts using physical and computational models * Group Interaction among students and faculty
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * Monitoring of the Timely Completion of Curriculum * Extra Classes and Counseling for Needy students is given * Continuous Internal Assessment * End Semester Examinations
35	Highlight the participation of students and faculty in extension activities. Dr. M. N. Abubacker (Associate Professor and Head) * National College Research Article Book Compilation Dr. S. Senthil Kumar (Associate Professor) * Youth Red Cross * Career Guidance and Placement Cell * College Magazine and News Bulletin Dr. M. S. Mohamed Jaabir (Associate Professor) * College Magazine and News Bulletin * Research Promotion Committee * Campus Garden and Campus Maintenance * Anti-ragging Committee * Coordinator, IQAC
36	Give details of "beyond syllabus scholarly activities" of the department. * Eminent Academicians, Scientists and Visitors to the department interact with students, educate and motivate them. (see s.no.32) * Summer internships for the in-house students enable them to improve their laboratory and research skills. * Encouragement to students to participate in various seminars / symposiums / conferences / workshops to get exposure to new methodologies / technologies.

37	State whether the programme/department is accredited/graded by other agencies. Give details. * PG Diploma in Bioprocess Technology innovative program is supported by UGC. * PG Diploma in Clinical Trials Management and Regulatory Affairs is supported by Consortium Clinical Research Pvt. Ltd., Coimbatore.
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strengths** Highly Qualified Faculty, State-of-the-art Laboratory Facilities, 24x7 Laboratory access, Research Funding from leading governmental agencies, UGC-Innovative program, e-library access, organizing workshops / conferences / symposiums / guest lectures by eminent International personalities, placement assistance, Industry collaboration, research article presentation and publications. **Weakness** Enrollment, Placement Assurance **Opportunities** * Good potential for expanding research activities * Good potential for securing industry collaboration **Challenges** * Attracting Students with the right aptitude, enrollments, * Performing and sustaining Cutting-Edge research, improving application oriented research.
39	Future plans of the department. * Obtaining research grants from various funding agencies * Perform collaborative research with leading institutions/organizations * Improving curriculum to match international standards and industrial needs.

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Evaluative Report of the Department of

Botany

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DEPARTMENT OF BOTANY

1	Name of the Department & its Year of Establishment	:	PG & Research Department of Botany1982
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc., Botany M.Sc., Botany M.Phil.& Ph.D., Botany
3	Interdisciplinary courses and departments involved	:	The department offers Horticulture and Biofertilizers and Biopesticides NME courses. Students of Geology, Chemistry and Zoology study the course.
4	Annual / semester/choice based credit system	:	Semester with Choice Based Credit System
5	Participation of the department in the courses offered by other departments	:	Under Graduate Botany students study Zoology as allied course and Industrial Biotechnology as Non Major Elective.
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	04	04
	Assistant Professors	06	04

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. K.V. Kannan	Associate Professor & Head	M.Sc., M.Phil., UGC (NET), Ph.D., PGDCA, PGDBI, PGDNBT	Cyanobacterial Physiology Bioremediation Strategies	Teaching: 24 Research: 32	01(Thesis Approved)
2.	Dr. B. Muthukumar	Associate Professor	M.Sc., B.Ed., M.Phil., Ph.D.	Tissue culture of medicinal, endangered/ rare plants Biodiversity studies Stress physiology	Teaching: 24 Research: 24	Ongoing - 02
3.	Dr. S. Srinivasan	Associate Professor	M.Sc., M.Ed., M.Phil., Ph.D.	Woody plant Tissue culture Microbiology	Teaching: 23 Research: 23	Ongoing - 01
4.	Dr. V. Nandagopalan	Associate Professor	M.Sc., M.Phil., Ph.D., SLST (1990)	Plant Cell Wall Histochemistry Biodiversity Molecular Systematic	Teaching: 19 Research: 25	05

5.	Dr. E. Natarajan	Assistant Professor	M.Sc., Ph.D., PGDST,	Plant tissue culture Microbial studies Mycorrhizae Molecular studies Phytochemistry Herbal science	Teaching: 08+ 07* Research: 17	Degree Awarded: 01 Submitted Thesis: 02
6.	Dr. S. P. Anand	Assistant Professor	M.Sc., M.Phil., Ph.D.	Medicinal Plants Research	Teaching: 10 Research: 14	Degree Awarded: 02 Ongoing – 07
7.	Dr. K. Ramar	Assistant Professor	M.Sc., M.Phil., Ph.D.	Plant Tissue Culture and Secondary Metabolites	Teaching: 08	Ongoing - 05
8.	Dr. P. Ananthi	Assistant Professor	M.Sc., M.Phil., Ph.D.	---	Teaching: 01 Research: 04	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	B. Sc., Botany - 15% M.Sc., Botany – 10%
9	Programme-wise Student-Teacher Ratio		B.Sc., 7:1 M.Sc., 5:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	02 - Lab Assistants

11 Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Name of PI	Name of the sponsoring agency	Title of the project	Amount sanctioned
Dr. V. Nandagopalan	DST	Screening carbon sequestration efficient forest trees and pulp with species under elevated CO_2,coupled with enhanced acidic and Ozone conditions*	Rs. 38,47,258/-
Dr.V.Nandagopalan	UGC	Histrochemical approach for the screening and enhancement of secondary metabolities in selected medicinal plants	Rs. 12,22,000/-
Dr. S.P. Anand	UGC	Enumeration of medicinal plants from Boda hill, Namakkal District of Tamil Nadu and tissue culture, antimicrobial and phytochemical studies on some high value therapeutic plants	Rs. 8,41,800/-
Dr. S.P. Anand	DST-SERB	Characterization of bioactive and biochemical constituents in some wild edible fruits of Eastern Ghats, Tamil Nadu	Rs. 15,00,000/-

12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	DST-FIST is now sanctioned only for the college, not for the department.

13	Research facility / Centre with • State recognition 1. Plant Tissue Culture Facility 2. Microbiology Facility • National recognition • International recognition		
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	133
	Monographs	:	14
	Chapter(s) in Books	:	06
	Editing Books	:	4
	Books with ISBN numbers with details of publishers	:	01
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	14
	Citation Index – range / average	:	428
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	3.87
	h-index	:	24
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated No income is generated but the following consultancy services are provided by the Department ∗ Under 'Centre for Rural Technology Development' Program, training on mushroom cultivation technique is imparted to the people in need, particularly, the rural people for self employment by Dr. S. Srinivasan, Associate Professor ∗ Dr. V. Nandagopalan, Associate Professor has given training to Shri. R. Natarajan, Scientist, National Research Centre For Banana, Thogaimalai, Tiruchirapalli in the studies of pollens (Palynolgy) during the 'Hands on Training Program in Palynology and Chromosome Studies' at the Department between 05.9.2013 and 20.9.2013.		

	∗ Dr. E. Natarajan, Assistant Professor, has given training to Shri. R. Natarajan, Scientist, National Research Centre For Banana, Thogaimalai, Tiruchirapalli in the studies of Chromosome during the 'Hands on Training Program in Palynology and Chromosome Studies' at the Department between 05.9.2013 and 20.9.2013.		
17	Faculty recharging strategies ∗ Attending refresher courses / seminars / workshops / Conference ∗ Publication of findings and updating of knowledge ∗ Conduct of seminars and meeting with eminent scientists		
18	Student projects	:	Ms. Ramya, II M.Sc. Student, was sanctioned Student project sponsored by Tamil Nadu State Council for Science & Technology in 2013
	• Percentage of students who have done in-house projects including inter-departmental	:	100%
	• Percentage of students doing projects in collaboration with industries/institutes	:	Nil
19	Awards / recognitions received at the national and international level by Faculty, Doctoral/Post doctoral fellows, Students ∗ Dr. E. Natarajan, was presented with Dr. Rathakrishnan Gold Medal award by Global Economical Progress and Research Association for the year 2013 for his contribution in Education and National Development. ∗ Dr. S.P. ANAND was sanctioned a project under DST-SERB Young Scientist Award – (F. No. SB/YS/LS-364/2013)		
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.	:	UGC Sponsored National Level Conference on "Recent Innovations and Future Trends in Biology", 24 & 25 August-2014.

21	Student profile course-wise:					
	Name of the Course (refer question no. 2)	**Applications received**	**Selected**		**Pass percentage**	
			M	**F**	**M**	**F**
	UG 2011	17	06	08	50	50
	2012	19	08	06	62.5	50
	2013	32	10	11	50	46
	2014	39	10	9	50	50
	PG 2011	15	5	10	100	84.62
	2012	18	3	4	100	100
	2013	15	2	9	100	100
	2014	16	2	2	100	100

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	B.Sc. Botany	---	100%	---	---
	M.Sc. Botany	80%	90%	10%	---
	M.Phil. in Botany	50%	75%	25%	---
	Ph.D. in Botany	50%	75%	25%	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	03students have cleared SLET

24	Student Progression	
	Student Progression	**Percentage against enrolled**
	UG to PG	60%
	PG to M.Phil.	25%
	PG to Ph.D.	15%
	Ph.D. to Post-Doctoral	---
	Employed • Campus selection • Other than campus recruitment	PG students are placed as School and College teachers through campus recruitment.
	Entrepreneurs	---

25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		80%
	From other universities within the State		20%
	From other universities from other states		Nil
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	01
27	Present details about infrastructural facilities		
	a) Library	:	There is a centralized library holding both books and journals in Botany
	b) Internet facilities for staff and students	:	There is a separate Computer Laboratory in the Department with Internet connectivity
	c) Total number of class rooms	:	UG - 3 rooms PG - 2 rooms (Used both for theory & practical works)
	d) Class rooms with ICT facility	:	All the class rooms are provided with LCD Projector.
	e) Students laboratories	:	UG and PG Laboratory Microbiology Laboratory Plant Tissue culture facility
	f) Research laboratories * Plant Tissue culture facility * Microbiology Laboratory There is a common Instrumentation facility in the college – NCIF – which is available for use for all the faculty and research scholars of the Science departments.		
28	Number of students of the department getting financial assistance from College		

Student Name	Guide	Agency
Mr. C. Marimuthu	Dr. V. Nandagopalan	UGC
Mr. G. Velmurugan	Dr. S.P. Anand	UGC
Mr. S. Deborah	Dr. S.P. Anand	DST -SERB

29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	A separate Biotechnology department was started in order to upgrade the Biological Science department in the emerging field.
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes. Syllabi is updated on the suggestion made by faculty periodically
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? Yes. IQAC of the College collects feed-back on Staff for all the Departments as a Centralized Process. Based on the students' feedback the teaching method is modified to suit students understanding. Suggestions of students are incorporated in syllabi during revision		
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Alumni of the Department working in research organization give feedback about the curriculum and changes are made accordingly.

31 List the distinguished alumni of the department (maximum 10)

Name	Present position & Addresses
Dr. Ramanathan	Assistant Professor, Department of Botany, Govt. Arts and Science College, Namakkal.
Dr. K. Ramar	Assistant Professor, Department of Botany, National College, Trichy-01
Mr. Manimaran	Teacher Trainer, SSA, Pudukkottai
Mr. U. Selvakumar	P.G. Assistant, Govt. Hr. Secondary School, Eruchi, Aranthangi.
Dr. Arunprakash	Assistant Professor, Govt. Arts College
Dr. Baskaran	Research Associate, South Africa
Mr. Muthukumarasamy	P.G. Assistant, Govt. Higher Secondary School, Aranthangi.
Mr. Chinnasamy	P.G Assistant, Govt. Hr. Secondary School, Ariyalur.
Dr. Vasantha	Assistant professor, Department of Botany, A.V.V.M. Pushpam College, Thanjavur
Mr. Maheswaran	B.T, Assistant, Govt. Boys Hr, School, Manachanallur, Trichy
Dr. Sathyamoorthy	PG Assistant, E.R. Hr. School, Trichy

32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts: ∗ **Nandagopalan V,** Anburaja V, Aslam. A and Prakash S. **Biodiversity and Species Richness Studies on Some Part of Mid Elevation Forests of Pachamalai Hills Eastern Ghats, Tamil Nadu.** Saraswathi Narayanan College, Madurai-22, DPPFSMPC- 6th&7thMarch 2015. ∗ **Marimuthu C.** Taxonomy Key Perpetration, Department of Botany, St. Joseph's College Trichy-02, 10 January 2015. ∗ **Marimuthu C.,** UGC Sponsored National Level Conference on **"Recent Innovations and Future Trends in Biology"**, National College, Tiruchirappalli-01. 24 & 25 August-2014. ∗ Velmurugan. G, Anand S.P., Doss. A, Marimuthu.C. and **Nandagopalan. V.** – **"Enumeration of medicinal plants from Karavalli of Namakkal District"**. St.Joseph College, Tiruchirappalli – ICSMCB – 10th& 11th January 2013. ∗ Kamaleswari.K, **Nandagopalan V** and Lakshmi Prabha. ***In Vitro*** **Studies on *Scillahyacinthine* (Roth.) J.F. Macbr.** Bharathidasan University, Tiruchirappalli-24.Recent Trends In Plant Biotechnology, 27th-28th February 2013. ∗ Doss A, Anand S.P., Keerthiga. M. and **Nanadagopalan. V. "Purification and optimization of fungal amylase from litter samples of western ghats, Coimbatore, Tamil Nadu (India)"**. St. Joseph College, Tiruchirappalli – ICSMCB – 10th& 11th January 2013. ∗ Kamaleswari. K, Parameswari M, Marimuthu C., and **Nandagopalan V,. Herbal Diversity and Conservation Studies on Kolli Hills Vegetation of Solakadu Region**. Thiagarajar College, Madurai-09, State Level Inter- Collegiate Seminar on Herbal Technology, 24 February 2012. ∗ M. Keerthiga and **S.P. Anand,** Phytochemistry, antioxidant and antibacterial activities of medicinal plants - a comparative study, National Symposium on Recent Advances in Medicinal and Aromatic Plants Organized by Department of Botany, St. Joseph's College, Tiruchirapalli on 05th Feb' 2015. ∗ **K. Ramar,** 2011. Hands on Training in Plant Tissue Techniques, Organized by Dept. of Botany, Karpagam University, Coimbatore-641 021. ∗ Mr. Syed Samiullah, Head-Operations, Professional Infotech, Coimbatore spoke on Medical coding and Job Opportunities in the Department of Botany on 30.08.2011. ∗ **K. Ramar**, 2013, Workshop on Modern analytical Techniques Organized by Department of Botany, National College, Trichy-01.

	The following special lecture programmes were conducted by Botany association during the last four years. * Mr. Syed Samiullah, Head-Operations, Professional Infotech, Coimbatore spoke on Medical coding and Job Opportunities in the Department of Botany on 30.08.2011. * Dr. G. Arujunan, Professor and Head Department of Animal science, Bharathidasan University, Trichy delivered a lecture on Chemical Communication Insects Plant Interaction on 23.09.2013. * Dr. A. Shajahan, Asso. Prof. Plant Molecular Biology, Dept. of Botany, Jamal Mohamed College, Trichy delivered a lecture on Plant Regeneration System through Somatic Embryogenesis on 26.03.2014. * Dr. S. Kaliamoorthy, Scientist, Botanical survey of India, Southern Regional center, Yercaud delivered a lecture on Orchid Biodiversity and Conservation on 22.12.2014. * Dr. C. Sasikumar, Associate Professor, and Head, Department of Biotechnlogy, Nehru Memorial College (Autonomous), Puthanampatti delivered a special lecture on Biofertilizers and its applications on 14.10.2015
33	List the Teaching methods adopted by the faculty for different Programme * Lecture-Demonstration * Class discussion * Use of Flowcharts * Use of slides * Power point presentation * Video shows on the specific topic
34	How does the department ensure that programme objectives are constantly met and Learning outcomes monitored * Curriculum has been designed to provide necessary knowledge and skill to the students on various aspects of plant science. * Students are evaluated through continuous internal assessment and end semester examinations. * Practical courses have been designed to provide essential skills to the students in the field of Plant Science. * Classroom Seminars are arranged for all the PG students and marks are awarded in the continuous internal assessment for the same. * All the UG and PG Students are taken on field visits every year for hands on training.

35	Highlight the Participation of students and faculty in Extension activities **RESOURCE PERSONS** **Dr. V. Nandagopalan:** ∗ Delivered a special lecture on "**One day Workshop on Histochemistry Techniques"** at Bishop Heber College, Tiruchirappalli-17, dated on 03 September 2015. ∗ Delivered a special lecture on **"Facets on Biodiversity and Conservation Studies"** at Bharathidasan University, Tiruchirappalli – 24, dated on18 February 2015. ∗ Delivered a special lecture on **"Medicinal Plant Research: A Golden Key for Phytodrug Investigation"** at **Vivekananda College of Arts and Sciences for Women, Tiruchengode, Namakkal** -05 on 17 December 2014. ∗ Delivered a special lecture on "**Two Day Workshop on Phytochemistry, Cytochemistry and Electrophoretic Techniques", entitled on "Histochemistry"** at **Holy Cross College**, Tiruchirappalli 02 on 12 December 2014. ∗ Delivered a special lecture on "**Concepts and Challenges In Protoplasts Isolation and Culture"** at Holy Cross College, Tiruchirappalli - 02 on 24 November 2014. ∗ Delivered a special lecture on **"சங்க இலக்கியத்தில் தாவரங்கள்"** at **Urumu Dhanalakshmi College,** Tiruchirappalli-19 on 14th March 2014. ∗ Delivered a special lecture on "**சங்க இலக்கியத்திணைக் கோட்பாடும் தாவரவியலும்"** at **Periyar EVR College**, Tiruchirappalli-23on14th February .2014. ∗ The member of selection committee for Department of Botany A.V.V.M Sri. Pushpam College (Autonomous) Poondi, Thanjavur-21th November 2013. ∗ Delivered a lecture on Core group **"HEALTH MANAGEMENT"** National College (Autonomous), Tiruchirappalli – 17th August 2013. ∗ Participation in State level KRP Training Programme on Content **Enrichment for P.G. Teachers** held at SIEMAT, Chennai- 5th August 2013. ∗ Acted as Resource Person and Member of Jury Board in Assessing the Projects of "**VEETTUKKU ORU VINGNANI 2013"** Programme organized by "**Puthiya Thalaimurai",** Trichirapalli – 30th July 2013. ∗ Delivered a Lecture in Bridge Course – **EASY HERBS,** National College (Autonomous), Tiruchirappalli – 9th July 2013. ∗ Lecture in Core Course-**LESSER KNOWN SECRETS OF WELL KNOWN PLANTS,** National College (Autonomous), Tiruchirappalli – 06th March 2013. ∗ Regional Workshop on **"Histochemistry"** organized by the Dept. of Botany, St. Joseph's College (Autonomous), Tiruchirappalli – 2. 18th October 2012.

	* பாரதிதாசன் பல்கலைக்கழக நாட்டு நலப்பணித்திட்டம் மற்றும் தேசியக்கல்லூரி (தன்னாட்சி), திருச்சி இணைந்து நடத்திய நலமான இளைஞர்கள் வளமான இந்தியா சிறப்பு முகாம் தலைப்பு **மூலிகை மருத்துவம்** நாள் : 18th February 2013. * முனைவர் ஐ. ஆரோக்கியசாமி அறக்கட்டளை சொற்பொழிவு விரிவாக்கத்துறை – செப்பர்டு செயிண்ட் ஜோசப் கல்லூரி, திருச்சிராப்பள்ளி – 2. 29th ஆகஸ்ட் 2012. * UGC – ASC – Bharathiar University – Refresher Course in Research Methodology for Social Sciences the topic of Lecture is **"Histochemistry".** 14th March 2012. * பாரதிதாசன் பல்கலைக்கழக நாட்டு நலப்பணித்திட்டம் மற்றும் தேசியக்கல்லூரி (தன்னாட்சி), திருச்சி இணைந்து நடத்திய நலமான இளைஞர்கள் வளமான இந்தியா சிறப்பு முகாம் தலைப்பு **மூலிகை மருத்துவம்** நாள் : 14வா குநடிசரயசல 2012. * DBT, Government of India sponsored Short Term hands – on Training Course on **"Basic Techniques in Plant Molecular Biology**" – Plant Molecular Biology Laboratory, PG & Research Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli. – 18th April to 3rd May 2011. * Lecture on **'Herbal Medicines'** – NSS Special Camping Programme, Iniyanur Village – National College (Autonomous), Tiruchirappalli – 31st January 2011. **RESOURCE PERSONS** **Dr. S. P. ANAND** * **Resource person** for the Biotechnology association meeting at Cauvery College for Women, Tiruchirappalli -18 on 31st August 2013 and delivered lecture on "Plant Tissue Culture –A green Biotechnology" * **Resource person** for the Career Orientation Programme on "Plant Tissue Culture" held on 30th August 2012 at Dhanalakshmi Srinivasan College of Arts & Science for Women, Perambalur – 621 212, Tamil Nadu. * Delivered an **Invited talk** for NSS Day celebration held on 24th September 2012 at Chettinad College for Arts & Science, Tiruchirappalli, Tamil Nadu **Dr. S. P. ANAND** – NSS PROGRAMME OFFICER - 2009 -2014 (FIVE YEARS) **Dr. K. RAMAR** – Associate NCC Officer, 2 COY (TN) BN NCC -2012 to till date All the plantations within the campus have been taxonomically identified and labeled. Services are rendered to establish and maintain Home Garden in the local community Roof-top cultivation of crops are also being promoted by the faculty

<table>
<tr><td>36</td><td colspan="3">Give details of "beyond syllabus scholarly activities" of the department.
* All the staff members are guiding students for M.Phil. and Ph.D. programmes.
* Field visits for Students
* Staff members attend National / International level seminars and workshops. A few staff members have traveled abroad to attend conferences.</td></tr>
<tr><td>37</td><td>State whether the programme/department is accredited/graded by other agencies. Give details.</td><td>:</td><td>No</td></tr>
<tr><td>38</td><td colspan="3">Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:
Strengths
• Mostly students from rural areas, particularly, sons and daughters of farmers opt for studying Botany and hence, they can utilize their education in farming, horticulture and so on
• All the staff members are doctorates and have specialized in different fields of Botany. All are approved supervisors to guide students for the Ph.D. Degree
• Students are grouped in practical classes and allowed to do the practical work of their own.
• The department is recognized for conducting M.Phil. and Ph.D. Degree Programs and if a student joins the department for UG Degree, there is a every possibility for him/her to pursue studies up to Ph.D.
Weakness
The only weakness is that the students are coming from rural areas and mostly from Tamil Medium schools with low percentage of marks in higher secondary examination. Even though they have very good knowledge in Botany after the completion of degree, their communication skill in English is poor and must be improved to get opportunity in the job market.
Opportunity
* The field of herbal medicine is witnessing renewed interest. The department can make a scientific assessment of various medicinal plants and develop plant based cures for ailments and diseases.
* Organic farming is another opportunity for helping the society at large as well as the farmers
* Popularization of the concept of kitchen garden is another emerging area of interest to the department.</td></tr>
</table>

	Challenges Attracting bright students with the right aptitude is the major challenge**.** With dwindling job opportunities, students should go in for self employment opportunities.
39	Future plans of the department. * Research in the field of plant tissue culture will be strengthened * Research on Herbal medicinal plants will be given priority

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Evaluative Report of the Department of

Chemistry

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DEPARTMENT OF CHEMISTRY

1	Name of the Department & its Year of Establishment	:	Chemistry,1960
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc. Chemistry M.Sc. Chemistry M.Phil. Chemistry Ph.D. Chemistry
3	Interdisciplinary courses and departments involved	:	Cosmetic Chemistry with Botany Agricultural Chemistry with Botany
4	Annual / semester/choice based credit system	:	Semester with Choice Based Credit System
5	Participation of the department in the courses offered by other departments	:	Allied courses for B.Sc. Botany, Geology, Physics and Zoology students B.Sc. Chemistry Students study NME courses offered by the department of Physics, Tamil, Philosophy and Zoology.
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

	Sanctioned	**Filled**
Professors	---	---
Associate Professors	09	09
Assistant Professors	09	08

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. K. Lakshmanan	M.SC., M.Phil., Ph.D., F.I.C.S	Associate Professor&Head	Organic Physical	33Years	---
2.	Dr. K. Vivekanandan	M.SC., M.Phil., Ph.D., F.I.C.S	Associate Professor	Organic Physical	29Years	3
3.	Dr. M. Kalyanasundari	M.SC., M.Phil., Ph.D.,	Associate Professor	Inorganic	26 years	----
4.	Dr. S. Sunitha	M.SC., M.Phil., Ph.D., PGDCA	Associate Professor	Inorganic	26 Years	---
5.	Ms. A. Amatussalam	M.SC., M.Phil.,	Associate Professor	Organic	15 Years	---
6.	Dr. S. Indira	M.SC., M.Phil., Ph.D., PGDAOR, PGDBI.,	Associate Professor	Bio-Inorganic	15 Years	1
7.	Dr. K. G. Sekar	M.SC., M.Phil., Ph.D., M.Ed., PGDCA	Associate Professor	Organic Physical	15 Years	8

8.	Dr. L. Pushpalatha	M.SC., M.Phil., PGDBI., Ph.D.,	Associate Professor	Organic Physical	15 Years	---
9.	Dr. B. Latha	M.SC., M.Phil., M.Ed., C.A.P., Ph.D.,	Associate Professor	Electro- Organic	15 Years	---
10.	Dr. M. Murali	M.SC., M.Phil., Ph.D.,	Assistant Professor(SG)	Bio-Inorganic	14 Years	6
11.	Dr. D. Saravanan	M.SC., Ph.D.,	Assistant Professor	Environmental	8 Years	6
12.	Dr. V. Renuga	M.SC., M.Phil., Ph.D.,	Assistant Professor	Crystal Growth	8 Years	6
13.	Mr. S. Arun Prabhu	M.SC., M.Phil., PGDCA., B.ED	Assistant Professor	Co-Ordination Chemistry	8 Years	---
14.	Ms. S. Sangeetha	M.SC., M.Phil., B.ED	Assistant Professor	Organic Physical	8 Years	---
15.	Ms. V. Sathya	M.SC., M.Phil.,	Assistant Professor	Co-Ordination Chemistry	8 Years	---
16.	Ms. K. Kavitha	M.SC., M.Phil., B.ED	Assistant Professor	Inorganic	8 Years	---
17.	Mr. R. Lakshmi Narayanan	M.SC., M.Phil.,	Assistant Professor	Inorganic	8 Years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	No Temporary faculty
9	Programme-wise Student Teacher Ratio	:	UG - 1;15 PG - 1:10
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	04 Lab Assistants and one store keeper are in the department.

11 Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

	Name of PI	**Name of the sponsoring agency**	**Title of the project**	**Amount sanctioned Rs.**
	Dr. V. Renuga	UGC-Minor	Growth crystal Defects & Biological study and oxide Crystals	1,65,670/-
	Dr. S. Sunitha	UGC-Minor	Synthesis and characterization of Biologically active heterocyclic compounds.	3,05,000/-

12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	NIL

13 Research facility / Centre with

- State recognition
  - ★ NCIF is DST, FIST and UGC sponsored.
  - ★ Researchers from all parts of Tamil Nadu use it.
- National recognition
- International recognition

14 Publications

	No. of papers published in peer reviewed journals (National / International)	:	90
	Monographs	:	Nil
	Chapter(s) in Books	:	Nil
	Editing Books	:	Nil
	Books with ISBN numbers with details of publishers	:	Nil

	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	Nil
	Citation Index – range / average	:	50
	SNIP	:	Nil
	SJR	:	Nil
	Impact Factor – range / average	:	2-3
	h-index	:	10
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated	:	Analysis of Pharmaceutical compounds for Orchid Chemicals under the Collaborative research.
17	Faculty recharging strategies ∗ Attend refresher courses ∗ Publish findings and update ∗ Attend National & International seminars / Conference ∗ Many teachers travel abroad for attending Conferences		
18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	60%
	• Percentage of students doing projects in collaboration with industries/institutes	:	40%
19	Awards / recognitions received at the national and international level by ∗ Faculty 1. Dr. M. Murali Best Teacher Award, 2012-Awarded by the Chemical Research Society of India Teacher fellowship by Indian Academy of Sciences, Bangalore (20/05/2013to 19/07/2013) 2. Ms. Sangeetha, Asst. Prof., Dept. of Chemistry was awarded the Best Paper Award for her Paper entitled DNA and Protein Binding, DNA Cleavage and Cytotoxic Activity of Square-Plannar 'Cu^{II} (Quinmol)CI] Complex presented in ICRS Annual Conference held in Banarus Hindu University, Varanasi, held on 1-3, Feb., 2013. ∗ Doctoral/Post-doctoral fellows ∗ Students		

20 Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

- Golden Jubilee Seminar on Chemistry and Industry; 9-3-2012
- Two-Day workshop on Modern Analytical Techniques; 31-1-2013 and 01.02.2013

21 Student profile course-wise:

Name of the Course (refer question no. 2)		Applications received	Selected		Pass percentage	
			M	F	M	F
2011-2012	UG	88	25	17	25	17
	PG	79	10	4	10	4
2012-2013	UG	83	18	15	18	15
	PG	30	17	03	17	03
2013-2014	UG	84	23	20	23	20
	PG	101	08	06	08	06
2014-2015	UG	97	29	16	29	16
	PG	85	07	09	07	09

22 Diversity of Students

Name of the Course (refer question no.2)	% of students from the College	% of students from the state	% of students from other States	% of students from other countries
UG	---	100%	Nil	Nil
PG	50%	100%	Nil	Nil

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	03

24 Student Progression

Student Progression	Percentage against enrolled
UG to PG	55%
PG to M.Phil.	5%
PG to Ph.D.	2 - 3%
Ph.D. to Post-Doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 10% 50%
Entrepreneurs	5%

25	**Diversity of Staff**		
	Percentage of faculty who are graduates of the same parent university		80%
	From other universities within the State		15%
	From other universities from other states		5 %
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	Dr. L. Pushpalatha Dr. B. Latha Dr. K. Lakshmanan
27	Present details about infrastructural facilities		
	a) Library	:	There is a centralized library holding both books and journals in Chemistry
	b) Internet facilities for staff and students	:	There is a separate Laboratory with 10 Computers in the Department with Internet connectivity
	c) Total number of class rooms	:	05
	d) Class rooms with ICT facility	:	All the class rooms are provided with LCD Projector
	e) Students laboratories	:	1.Newly renovated UG and PG laboratories 2. Physical Chemistry Laboratory
	f) Research laboratories	:	Instruments lab for Research
28	Number of students of the department getting financial assistance from College.	:	All the SC/ST/OBC students get scholarship from the Govt. of Tamil Nadu.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. The Department was upgraded to offer M.Phil. and Ph.D. programmes. Since many staff members involve themselves in the specialized field of research, these research programmes were introduced to facilitate the students to register under the staff as research guides.		
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	yes, syllabi is updated on the suggestion made by faculty periodically

	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Based on the students feedback the teaching method is changed, to suit according to students capability. Their suggestions have been incorporated in syllabi during revision.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Alumni of the Department working in research organization and other Chemical / pharmaceutical industries give feedback about the curriculum and changes are made accordingly.
31	List the distinguished alumni of the department (maximum 10) 1. Dr. M. Sekar, Asst. Prof., Nehru Memorial college, Puthanampatti, Trichy 2. Dr. N. Rajendran, Associate Prof. Annamalai University, chidambaram 3. Dr. G. Thirunarayanan M.Sc. Department of chemistry, Annamalai University, Annamalainagar. Chidambaram. 4. Dr. S. Murugesan Associate Department of chemistry, Annamalai University, Annamalainagar. Chidambaram 5. Mr. G. Ramasamy B.Sc. M.Sc. Asst. Prof. of chemistry, Engineering and Technology Section, Annamalai University, Chidambaram. 6. Mr. M. Venkatapathy Asst. Prof. of chemistry, Govt. Arts College, Poolankurichi, Ponamarvathy, Alagappa University, Karaikudi. 7. Mr. M. Venkatesan Lecturer in chemistry, Selvam Arts & Science College, Namakkal, Periyar University. 8. Mr. S. Narayanan R& D Lab, TNPL, Pugalur, Karur Dt. 9. Dr. Murugesan, Associate Professor School of Chemistry Madurai Kamaraj University, Madurai. 10. Mr. Chandrasekar, Regional Manager, New India Assurance, Trichy.		
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts The following special lecture programmes were organized. 1. Dr. P. Venuvanalingam, Professor & Head, Department of Chemistry, Bharathidasan University, Tiruchirapalli delivered a lecture on Is the Chemical bond a fact or a fiction? On 18.08.2011. 2. Dr. K.P. Elango, Associate Professor in Chemistry, Gandhigram Rural Deemed University, gandhigram, Dindigal to give a lecture on Fluoride Toxicity on 12.10.2011. 3. Dr. N. Kalaiselvi, Scientist, Central Electrochemical Research Institute, Karaikudi delivered a lecture on Lithium battaries for Green Environment on 11.10.2011.		

	4. Dr. P. Thomas Muthiah, Professor and Head, School of Chemistry, Bharathidasan University, Trichy delivered a lecture on Role of Chemistry in Nutritional Status on 22.08.2013. 5. Ms. Latha Janet, Head of Dept. of Science, EAU Claire High School, Columbia, SC, USA delivered a lecture on Chemistry Education in USA on 13.07.2012. 6. Dr. K. Natarajan, Emeritus Professor, Dept. of Chemistry, Bharathiyar University, Coimbatore delivered a lecture on the Link between Inorganic and organic Chemistry on 17.09.2012. 7. Dr. S. Muthusubramanian, Professor, School of Chemistry, Madurai Kamaraj University, Madurai delivered a lecture on Applications of Nuclear Magnetic Resonance Spectroscopy on 04.10.2012. 8. Dr. V.M. Biju, Asst. Prof. Dept. of Chemistry, National Institute of Technology, Trichy delivered a lecture on High Pressure Liquid Chromatography Instrumentation and Applications on 15.03.2013. 9. Dr. D. Kalaivani, Asso. Prof. and Head, Dept. of Chemisty, Seethalakshmi Ramasamy College, Trichy delivered a lecture on Nuances of Some Terms in UV-VIS/IR Spectroscopy on 05.02.2015.		
33	List the teaching methods adopted by the faculty for different programmes. * Beside chalk and talk method, use of models to help the students to get a 3-dimensional picture of molecules. * Power point presentation Using LCD Projector. Internet virtual Class with LCD Projector * Industrial visit to chemical / pharma / Cement / Steel industries.		
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored?	:	It is monitored based on the students performance in their assignments, periodical tests, seminars and end-semester examinations.
35	Highlight the participation of students and faculty in extension activities.	:	Students of the department are involved in the analysis of the samples in the NCIF.
36	Give details of "beyond syllabus scholarly activities" of the department. * A few staff members are guiding students for M.Phil. and Ph.D. programmes. * Staff members attend National / International level seminars and workshops. * A few staff members have traveled abroad to attend conferences.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	No
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department: **STRENGTH** * Well qualified and experienced teachers * Laboratory with all the necessary equipment for UG, PG and Research Programmes. * Staff members with different field of specialization.		

	WEAKNESS * Students are largely from rural downtrodden educationally backward class. **OPPORTUNITY** * Jobs in Chemical factories, Virtual chemical reaction in computer software industry. Ph.D. programme, Academic carriers in School, Colleges and Universities. **CHALLENGES** * To Qualify students for placement of future advancement of Chemistry * By giving training programme and asking to take summer and winter courses in the selected advanced industries * Integrated Ph.D. courses
39	Future plans of the department. * Training the students for GATE,, GRE,,NET and IELTS examinations. * Introduction of Diploma or Certificate courses in Applied Chemistry field related to industries. Like cosmetic chemistry, food chemistry etc. * Efforts will be made to do research in the recent cutting edge fields of chemistry. * Socially relevant activities like water purification, controlling industrial pollution, and waste solid management. * Department is planning to develop facilities for Petrochemical and Polythene research

Evaluative Report of the Department of

Computer Science

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EVALUATIVE REPORT OF THE DEPARTMENT OF COMPUTER SCIENCE

1	Name of the Department & its Year of Establishment	:	PG Department of Computer Science 1990
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc. Computer Science M.Sc. Computer Science B.C.A B.Sc. Information Technology M.Sc. Information Technology
3	Interdisciplinary courses and departments involved * Skilled Based Elective: Commerce; Business Administration * Desktop publishing, Scripting Languages &Photoshop. * Tally Package : Commerce * Calligraphy * Combo Pack tie up with HCL, Web Designing using HTML.		
4	Annual / semester/choice based credit system	:	Semester with CBCS
5	Participation of the department in the courses offered by other departments	:	Teachers of the department handle classes on Computer Application for the students of English, Tamil, Business Administration and so on.
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	Filled
	Professors	---	---
	Associate Professors	---	---
	Assistant Professors	20	20

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided in the last 4 years
1.	Dr. P.S.S. Akilashri	M.C.A., B.Ed., M.Phil. Ph.D.	Asst. Prof. & Head	Image Processing & Data Mining	11 Years	---
2.	Ms. R. Sasikala	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Data Mining	11 Years	---
3.	Ms. S. Ramani	M.C.A., M.Phil., B.Ed.,	Asst. Prof.	Software Testing	9 Years	---
4.	Ms. Y. Priya	M.C.A., M.Phil.,	Asst. Prof.	Cloud Computing	8 Years	---
5.	Ms. R.A. Sofia	M.C.A., M.Phil., B.Ed.	Asst. Prof.	Network security	7 Years	---
6.	Ms. A. Umamageswari	M.Sc., M.Phil.,(Ph.D.)	Asst. Prof.	Data Mining	7 Years	---
7.	Ms. P. Sundari	M.Sc., M.Phil.	Asst. Prof.	Data Mining	12 Years	---
8.	Ms. B. Mahalakshmi	M.Sc., M.Phil.	Asst. Prof.	Data Mining	3 Years	---
9.	Ms. V. Jayasudha	M.C.A., M.Phil.	Asst. Prof.	Networks	3 Years	---
10.	Ms. S. Sujatha	M.Sc., M.Phil.	Asst. Prof.	Networks	3 Years	---
11.	Ms. M. Arul Kothai Priya	M.C.A., M.Phil.	Asst. Prof.	Data Mining	5 Years	---

12.	Ms. Maria Shyla Gratice	M.C.A, B.Ed.,	Asst. Prof.	J2EE	2 Year	---
13.	Ms. P. Gowri Shankar	M.Sc., M.Phil.	Asst. Prof.	Data Mining	2 Years	---
14.	Ms. S. Sharmila	M.C.A., M.Phil.	Asst. Prof.	Data Mining	4 Years	---
15.	Ms. S. Siva Prakasam	M.C.A., M.Phil.	Asst. Prof.	Data Mining	2 Years	---
16.	Ms. M. Umamaheswari	M.Sc., M.Phil.	Asst. Prof.	Networks	3 Years	---
17.	Ms. D. Ananthi	M.Sc., M.Phil.	Asst. Prof.	Database	4 Years	---
18.	Ms. B. Suguna	M.Sc., M.Phil.	Asst. Prof.	Networks	15 Years	---
19.	Ms. S. Kiruthiga	M.C.A, M.Phil.	Asst. Prof.	Networks	5 Years	---
20.	Ms. M. Saranyakala	M.Sc., M.Phil.	Asst. Prof.	Data Mining	10 Months	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	There is no temporary faculty
9	Programme-wise Student Teacher Ratio	:	UG - 40:1 PG - 15:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Administrative Staff – 2
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	---
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	---
13	Research facility / Centre with • State recognition • National recognition • International recognition	:	---
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	National - 04 International - 15
	Monographs	:	---
	Chapter(s) in Books	:	06
	Editing Books	:	04
	Books with ISBN numbers with details of publishers	:	01
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	14
	Citation Index – range / average	:	85
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	4.69
	h-index	:	---

15	Details of patents and Income generated	:	---
16	Areas of consultancy and Income generated	:	---
17	Faculty recharging strategies ∗ Attending refresher courses ∗ Publication of Papers ∗ Participation in National & International seminars / Conferences ∗ Training through private agencies on latest software		
18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	70%
	• Percentage of students doing projects in collaboration with industries/institutes	:	30%
19	Awards / recognitions received at the national and international level by Faculty, Doctoral/Post doctoral fellows, Students		
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. ∗ **Dr. A.R. MOHAMED SHANAVAS**, Associate Professor, Jamal Mohamed College-Trichy conducted a one day "Workshop on MatLab" – 2014.-Sponsored by the Management ∗ **Prof. K. SRIDHARAN**, Director, Dept., of Computer science, Srimadh Andavan Arts and Science college, Trichy, conducted a one day "Workshop on Android Application" – 2012. Sponsored by the Management ∗ **Mr. Dineshkumar Gandhi, M.Sc., M.Phil., (Ph.D.),** Resource Person, Head, R&D, Innovative Dynamic Technologies, Coimbatore, "Workshop on Big Data Analytics – March 2016." Sponsored by the Management ∗ **Dr. E. George Dharma Prakash Raj**, Assistant Professor, Bharathidasan University, Trichy, inaugurated the workshop on Android Application Development -September 2015. Sponsored by the Management ∗ **Mr. Mohammed Faiz Farooq,** Resource Person, Design Engineer and Technical Associate, ARK Techno solutions, Bangalore, "Workshop on Android Application Development – March 2016." Sponsored by the Management ∗ **Dr. K. Srinivasan,** Asso. Prof. Dept. of English, National College, "Seminar – Towards Zenith, July 2015." Sponsored by the Management ∗ **Mr. Sundaram,** Corporate Advisor, Image Creative Technology, "Seminar - Learn and Earn Through Creative Technologies**,** August 2015**.**" Sponsored by the Management		

	∗ One day Workshop on **Android and Multimedia** was organized by the Department of Computer Science on 12-10-2012. ∗ One Day Seminar on "You can be on your Own" **Recent Trends in Graphic Designing Advertising and Branding** was organized by the Department of Computer Science on 28-02-2013.

21 Student profile course-wise:

Name of the Course (refer question no. 2)	**Applications received**	**Selected**		**Pass percentage**	
		M	**F**	**M**	**F**
B.Sc. (Computer Science)	200	81	13	45.5%	69%
B.C.A(Computer Application)	250	76	14	41%	71.5%
M.Sc. (Computer Science)	50	09	01	100%	100%

22 Diversity of Students

Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
B.Sc. (Computer Science)	---	100	---	---
BCA (Computer Application)	---	98	01	---
M.Sc. (Computer Science)	---	100	---	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	---

24 Student Progression

Student Progression	**Percentage against enrolled**
UG to PG	65%
PG to M.Phil.	10%
PG to Ph.D.	1%
Entrepreneurs	25%

25 Diversity of Staff

Percentage of faculty who are graduates	
Of the same parent university	85
From other universities within the State	15
From other universities from other states	---

26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	01
27	Present details about infrastructural facilities		
	a) Library	:	1,505 Books are available in the field of Computer Science. There is a centralized library holding both books and journals in Computer Science.
	b) Internet facilities for staff and students	:	There is a separate Computer Laboratory in the Department with Internet connectivity
	c) Total number of class rooms	:	18
	d) Class rooms with ICT facility	:	Yes
	e) Students laboratories	:	02
	f) Research laboratories	:	---
28	Number of students of the department getting financial assistance from College ∗ Three students get scholarship from the Management. ∗ All the SC/ST/OBC students get scholarship from the Govt. of TN.		
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	No new programmes were introduced
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes. Syllabi is updated on the suggestion made by faculty periodically
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? Yes. IQAC of the College collects feed-back on Staff for all the Departments as a Centralized Process. Based on the students feedback the teaching method is modified to suit students understanding. Suggestions of students incorporated in syllabi during revision.		
	c. Alumni and employers on the programmes and what is the response of the department to the same? ∗ Alumni of the Department working in research organization give feedback about the curriculum and changes are made accordingly. ∗ Based on the observations of the corporate H R persons who come for Campus recruitment, necessary changes are incorporated in the curriculum.		

31	List the distinguished alumni of the department (maximum 10) ∗ Mr. T. Ashok Kumar, Manager, SBI, Trichy. ∗ Mr. Manirathnam, B.Sc. CS – 2007, Software Engineer, KOMPAC Digital System Pvt. Ltd., Chennai. ∗ Mr. Murugesan, B.Sc. CS – 2007, Development Trainer, HCL, Chennai. ∗ Mr. Senthamizh Selvan, BCA – 2009, Trainer, TCS, Chennai. ∗ Mr. Manikandan, BCA – 2011, Programmer, Doctors Partner Asia, Chennai. ∗ Mr. Nandha Kumar, BCA – 2011, Asst. Business Development Manager, Iwiz Android Robo Pvt. Ltd, Chennai. ∗ Ms. Priya Dharshni, B.Sc. CS – 2012,Senior Programmer, TCS, Chennai. ∗ Mr. R. Balaji, BCA – 2012, Software Engineer, R&D, soft Tech, Coimbatore. ∗ Mr. Muthu Selvan, M.Sc. CS – 2014, Web application developer, Hot Course India Pvt. Ltd, Chennai. ∗ Mr. Vigneshwaran, BCA – 2015, Trainee, CTS, Chennai. ∗ Mr. Jagadisan. R, BCA – 2015, Recruiter Trainee, VDart Technologies Pvt. Ltd. Trichy.
32	The following eminent persons delivered lectures under the academic activities. ∗ Dr. E. Kannan, Registrar, Veltech Technical University, Chennai- 2014. ∗ Dr. Gopinath Ganapathy, Director, Bharathidasan University Technology Park, Trichy. – 2014. ∗ Dr. K. Manivannan, Dean, Planning & Development, RMK Engineering College, Kavaraipettai-Chennai, - 2015. ∗ Dr. O.P. Bajpai, Director Academics, Veltech Dr. R.R. & Dr.S.R. Technical University, Avadi, Chennai, - 2013. ∗ Dr. S. Nickolas, Head, Dept. of M.C.A, National Institute of Technology-Trichy, - 2013. ∗ Shri. T. Ramalingam, IRS, Deputy Commissioner, Income tax, Trichy, 2013. ∗ Mr. Abdul Rahman, IRAS, Asst., Divisional Railway Manager, Southern Railway, Trichy, - 2013. ∗ Dr. J. Kalpana, Principal, J.R. Poleytechnic College, Trichy .Certification Day on 2014 ∗ Ms. SHALU, MANAGER (H.R)-e QUADRIGA Software Private Limited Trichy. ∗ Mr. Javid Ahamed, Creative Director, Max Vision International, Jeddah, Saudi Arabia, -2014. ∗ Mr. Dineshkumar Gandhi, M.Sc., M.Phil., (Ph.D.), Resource Person, Head, R&D, Innovative Dynamic Technologies, Coimbatore, ”Workshop on Big Data Analytics – March 2016.” ∗ Dr. Shanmugavadivu, Head, Dept. of MCA, Gandhigram University, Dindukal, “Inauguration of Nacotech 2K16 – February 2016.”

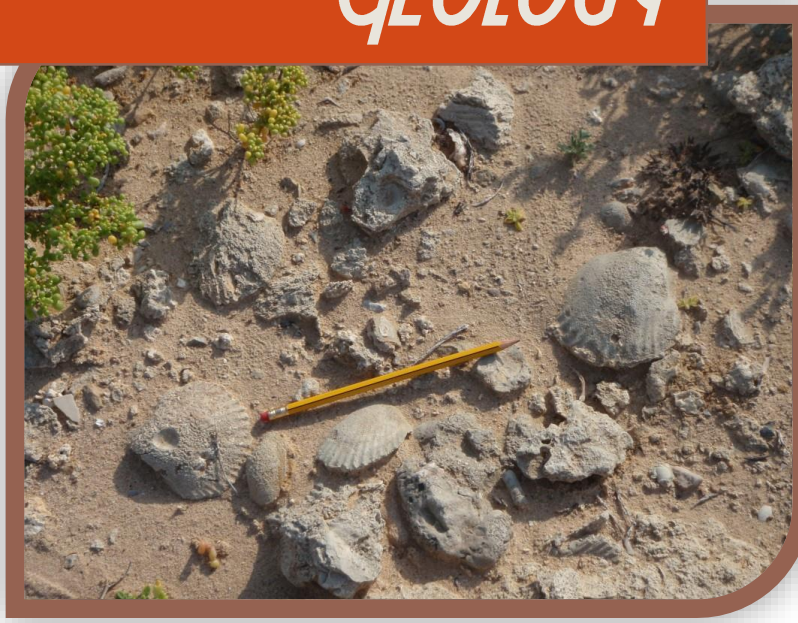
	∗ Mr. L. Bharatwajan, Co-pilot, Associate with Top Flight Air Charted Company, Phillipines, "Special invitee of Nacotech 2K16 – Valedictory, Febrauary 2016." The following special lecture programmes were conducted by Computer Science Association during the last four years. ∗ Mr. K. Srinivasan, Deputy Controller, delivered a lecture on Born to Win on 16.08.2013. ∗ Dr. V.R. Mathiazhagan, Prof. in-Charge delivered a lecture on Personality Development on 25.09.2014. ∗ Mr. Sundaram, Corporate Advisor, Image Creative Technology delivered a lecture on Learn and Earn through Creative Technologies on 04.08.2015.		
33	List the teaching methods adopted by the faculty for different programmes.	:	∗ PowerPoint presentation ∗ Seminars by Students ∗ Laboratory practicals ∗ Workshop
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? ∗ Maintaining counseling Record for each student. Conducting class tests and seminar classes. ∗ Periodic Review of completion of syllabus, Continuous Internal Assessment		
35	Highlight the participation of students and faculty in extension activities.		

Name of the Extension Activities	Number of Students participated
Sports	01
NCC	09
NSS	06
Rotaract Club	15
Fine Arts	02

36	Give details of "beyond syllabus scholarly activities" of the department. ∗ Special lectures on current topics under the aegis of the Association ∗ Staff members attend National / International level seminars and workshops. ∗ A few staff members have traveled abroad to attend conferences.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	---

38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strengths** ∗ Dedicated computer server for the department ∗ Student-computer ratio is 3:1 ∗ Wi-Fi facility ∗ All classrooms have ICT facility **Weakness** ∗ Majority of students come from Rural areas with Tamil as a medium of study. ∗ Lack of sufficient Ph.D. guides to acquire Ph.D. **Opportunity** ∗ Placement in IT companies ∗ Opportunities for entrepreneurship **Challenges** ∗ Pass percentage in NET/GATE exam is far below the average. ∗ To improve the communication skills of the students to meet the challenges at workplace
39	Future plans of the department. ∗ To introduce M. Phil / Ph.D. Research Programmes ∗ To sign MoU with Corporates and Institutions abroad to enrich learning experience ∗ To train students for GATE / NET examinations. ∗ To establish an exclusive research facility to promote research in Computer Science / Network

Evaluative Report of the Department of Geology



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EVALUATIVE REPORT OF THE DEPARTMENT OF GEOLOGY

1	Name of the Department & its Year of Establishment	:	Geology, 1961
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc. Geology M.Sc. Applied Geology M.Phil. & Ph.D. Geology/Applied Geology
3	Interdisciplinary courses and departments involved Geology and Environment - Chemistry, Physics Elements of Geology - Chemistry, Physics		
4	Annual / semester/choice based credit system	:	Semester- Choice based credit system
5	Participation of the department in the courses offered by other departments	:	Tamil - Petchukalai Botany - Horticulture Philosophy - Gandhian Thought
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	06	06
	Assistant Professors	05	04

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. K. Anbarasu	M.Sc., M.Phil., Ph.D.,	Principal	Coastal Geomorphology & Remote Sensing	33 Years	01
2.	Dr. V. Kumar	M.Sc., M.Phil., Ph.D.,	Associate Professor & Head	Micropaleontology & Coastal Ecology and Environment	31 Years	---
3.	Dr. D. Srinivasan	M.Sc., M.Phil., Ph.D.,	Associate Professor	Micropaleontology & Hydrogeology	31 Years	---
4.	Dr. V. Subramanian	M.Sc., M.Phil., Ph.D.,	Associate Professor	Petrology & Geophysics	31 Years	01
5.	Dr. R. Ramesh	M.Sc., M.Phil., Ph.D.,	Associate Professor	Sedimentology & Marine Geology	31 Years	---
6.	Mr. S. Sivakumar	M.Sc., M.Phil.	Associate Professor	Hydrogeology & Micropaleontology	29 Years	---
7.	Dr. N. Jawahar Raj	M.Sc., M.Tech., Ph.D.	Associate Professor	Environmental Geology & Remote Sensing	15 Years	---
8.	Dr.V.Vasanthamohan	M.Sc., Ph.D.	Asst. Professor	Environmental Geology & Geochemistry	8 years	---
9.	Dr. S. Selvaraj	M.Sc., SET, Ph.D.	Asst. Professor	Sedimentology & Remote Sensing	8 years	---
10.	Ms. J. Christinal	M.Sc.	Asst. Professor	Micropaleontology	Recent	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	UG - 10 % PG - 8 %
9	Programme-wise Student Teacher Ratio	:	UG - 10:1 PG - 8:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Lab Assistants - Sanctioned: 4 Filled : 2

11 Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

	Name of the Principal investigator	**Funding Agency**	**Title of the Project**	**Sanctioned Amount (Rs.)**
	Dr. K. Anbarasu	MoES	Geobiotechnological Study of Quaternary Sea level changes along the coast of Tamil Nadu using Sedimentological, Micropaleontological & Microbiological indicators.	44,50,000/-
	Dr. S.Selvaraj	NIOT	Field Investigations for shore line management project along the coastal stretch between Poovar and Thuthukudi, Tamil Nadu Coast	22,43,000/-

12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	DST FIST is sanctioned to the College as a unit, not to the department in a College

13 Research facility / Centre with

- State recognition
- National recognition
- International recognition

1. The Department has GIS and Remote Sensing Research Laboratory. Modern Survey Equipment like Total Station and RTKGPS are available.
2. A Research Laboratory for Sedimentological Studies with a Research Microscope has been established.

14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	10
	Monographs	:	Atlas of Coastal Geomorphology of Tamil Nadu has been prepared and it is widely used by Researchers for Coastal area studies.
	Chapter(s) in Books	:	---
	Editing Books	:	01
	Books with ISBN numbers with details of publishers	:	---
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	25
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	02
	h-index	:	---
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated * Rs. 2,15,000/- for the consultancy service to calculate the volume of Garnet sand as per Madras High Court direction. * Rs. 7,00,000/- for the shoreline management studies for NIOT.		
17	Faculty recharging strategies * Staff members attend seminar/conference regularly. * They are guiding M.Phil. and Ph.D. scholars. * Experts are invited for special lectures. * Attend refresher courses and Short term training programme.		

18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	50%
	• Percentage of students doing projects in collaboration with industries/institutes	:	50%
19	Awards / recognitions received at the national and international level by ∗ Faculty ∗ Doctoral / Post doctoral fellows ∗ Students 1. Students of the department were the winners for two years consecutively in the Geoparley event organized by Gandhigram Rural University, Dindigul. 2. Many prizes are won every year by the students of the department in the AGE event held in Anna University, Chennai.		
20	Seminars/Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. 1. One day Public awareness programme on "Environment and Drinking water management" Feb 2012 2. Two days National Workshop on "**Image Processing and GIS Techniques in Geology**" Aug' 2013		
21	Student profile course-wise:		

	Name of the Course (refer question no. 2)		**Applications received**	**Selected**		**Pass percentage**	
				M	**F**	**M**	**F**
	B.Sc. Geology	2011-2012	46	29	06	70%	20%
		2012-2013	53	27	05	65%	20%
		2013-2014	64	29	04	60%	12%
		2014-2015	69	28	10	62%	12%
	M.Sc. Applied Geology	2011-2012	20	09	03	85%	15%
		2012-2013	27	12	---	91.67%	---
		2013-2014	32	08	07	55%	45%
		2014-2015	37	10	06	80%	20%

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	B.Sc.	---	70%	30%	---
	M.Sc.	---	70%	30%	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	∗ GATE – 04 students ∗ Rajiv Gandhi Scholarships - 01
24	Student Progression		
	Student Progression		**Percentage against enrolled**
	UG to PG		75%
	PG to M.Phil.		---
	PG to Ph.D.		20%
	Ph.D. to Post-Doctoral		---
	Employed • Campus selection • Other than campus recruitment		 15% 80%
	Entrepreneurs		15%
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		50%
	From other universities within the State		50%
	From other universities from other states		---
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	01
27	Present details about infrastructural facilities		
	a) Library	:	2,904 books relating to geology
	b) Internet facilities for staff and students	:	Yes
	c) Total number of class rooms	:	05
	d) Class rooms with ICT facility	:	02
	e) Students laboratories	:	02
	f) Research laboratories	:	01

28	Number of students of the department getting financial assistance from College.	:	90%
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. No new programme was introduced in the last four years. M.Sc. Geophysics programme is planned to be introduced in the year 2016-17. The programme is not offered in the state of Tamil Nadu and Kerala.		
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes, Incorporate their inputs/suggestions in improving the curriculum / teaching-learning-evaluation process.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes, Their suggestions were incorporated in the curriculum/ teaching-learning-evaluation process.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Alumni organize annual meeting and distributing prizes to meritorious students and extending financial support to the needy students
31	List the distinguished alumni of the department (maximum 10) * Mr. L.A.V Karthikeyan, ONGC Andhra Pradesh * Mr. Dhatchinamoorthy, Mining Geologist, South Africa * Mr. Deepak, Mining Geologist, Madagashar * Mr. Saravana Kumar, Proprietor, Mines, South Africa. * Mr. Ramakrishnan, General Manager, ONGC, Chennai * Mr. R. Jayakumar, DDG, GSI, Kolkata. * Mr. Vijayakumar, Senior Geologist, GSI * Mr. C. Murugan, Deputy Director, AMD, Hyderabad. * Mr. Ramprasad, GSI Andhra Pradesh * Dr. Angusamy, Geologist, Iron Ore Mines, Australia. * Dr. Udhayaganesan, Head, Dept. of Geology, Alagappa Arts and Science College, Karaikudi		

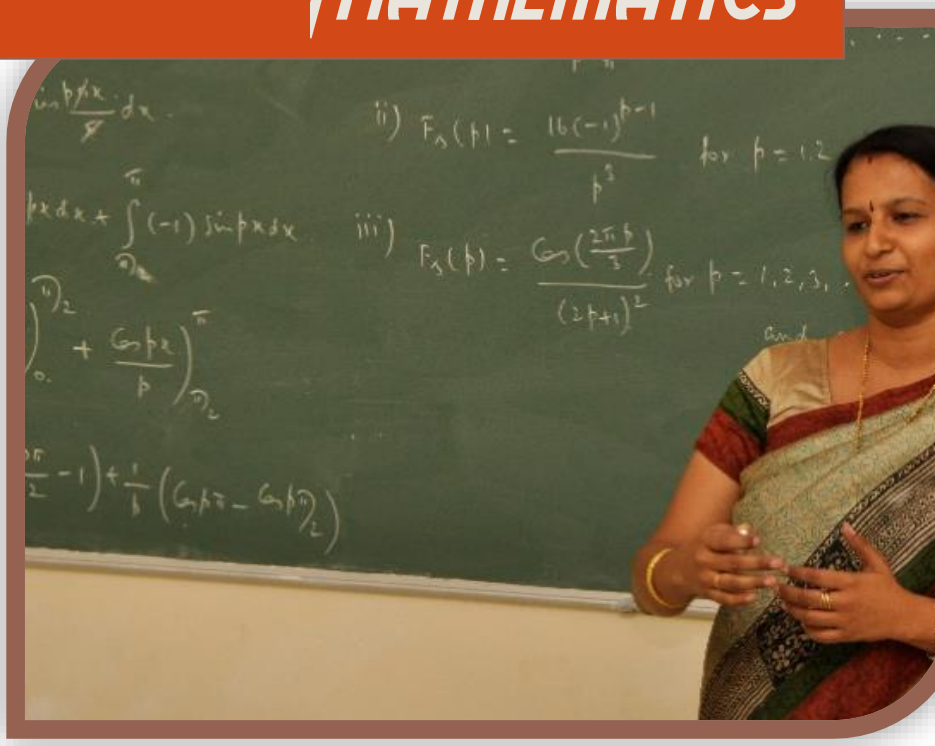
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts * Periodical special lectures are being organized by Geology association. * Multi speciality lectures are being organized by the college for core group students. * The Department extends its full guidance and Co-operation to the Geology faculties, scientists, researchers and students from various colleges and Universities of our country to study the wonders of "Upper Cretaceous exposures of Tiruchirapalli Cretaceous formation" * The Department has been providing "Survey Training" programme to the students of Geology from various institutions. * As the Department possess a very good collection of Rocks, Minerals and Fossils, it lends them to the nearby institutions to facilitate teaching. * Through invited lectures, our Staff members disseminating their knowledge to the audience of PWD, various schools and colleges. * The Department along with Tiruchirappalli Tamil Sangam organised one week lecture programme "Adhisaya Boomi" to the Public every year to create awareness about our planet earth to the general public.
33	List the teaching methods adopted by the faculty for different programmes. * chalk and black board is followed * Concept of 'Computer Aided Teaching' through various interactive teaching aids like LCD and Interactive Board. * train the students in geological mapping and surveying. * Students are taken to places of Geological interest like underground /open cast mines, and various geological land forms
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * Field work is part of the curriculum and is considered for award of marks in practicals. * Students are trained in all branches of Geological Science to make them eligible for different jobs. * Assignments, Seminar classes, CIA test, class test, field work, practicals, webinars etc are taken into consideration for awarding marks. * Eminent Geologist are invited for special lectures in order to give exposure to the students on latest developments in the subject.

35	Highlight the participation of students and faculty in extension activities. ∗ Dr. S. Selvaraj, Asst. Prof. in the department is the ANO of NCC (Naval) unit of the College. ∗ Dr. V. Kumar, was the coordinator for NSS unit ∗ Many students are NCC cadets and NSS volunteers. ∗ Students participate in Competitions conducted in other colleges and bag prizes. ∗ A group of students are members of JCI unit of the College.		
36	Give details of "beyond syllabus scholarly activities" of the department. Eminent Geologist and Scientist are invited to deliver lecture for the benefit of students. The following lectures were delivered during the last four years. 1. Prof. V. Radhakrishnan, Prof. and Head, Dept. of Marine Sciences, Bharathidasan University, Trichy delivered a lecture on New Vistas in Marine Geology on 30.08.2011. 2. Dr. C. Sakthi Saravanan, Post Directorate Fellow from the School of Geological Sciences, University of Kwazutu Natal, Durban, South Africa delivered a lecture on The Gold Mineralizaion on 28.12.2011. 3. Dr. Priyadarsi D. Roy, Asso Prof. Dept. of Geochemistry, Institute of Geology, National University of Mexico delivered a lecture on Millennial Scale Climate Evolution of Mexican Drylands since Late Quaternary on 23.07.2012. 4. Dr. A.M. Dayal, Emeritus Scientist, National Geophysical Research Institute, Hyderabad delivered a lecture on Exploration of Hydrocarbon using Geochemical Technique on 28.01.2014. 5. Dr. K. Prabhakar Reddy, South India Team Lead, Here Solution Ltd, Nokia Business, Bangalore delivered a lecture on An Overview of Map Community on 27.06.2014. 6. Dr. R. Jayakumar, Deputy Director General Rtd, Geological Survay of India, Kolkata delivered a lecture on An Overview of Exploration for Gold on 12.08.2014. 7. Dr. K. Muthukumaran, Asso. Prof. Dept. of Civil Engineering, National Institute of Technology, Trichy delivered a lecture on Soil Strength at Construction Site on 03.02.2015. 8. Wg Cdr (Retd.) C. Palanivel, Career Consultant and Talent acquisition delivered a lecture on Design Your Dreams on 15.10.2015.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	No

38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strength** * There is a great demand for admission to B.Sc. Geology * The Department has faculties with specialization in various branches of Geology. * Required infrastructure is available. * Principal of the College is a staff of the department **Weakness** * Expertise in the Structural Geology and Isotope Geology are not available. * Funds for Research are insufficient. * Field work requires recurring expenditure. * Exploration of Mineral resources need core sampling equipment which is very costly and involve requiring expenditure. **Opportunities** * Students with high marks have joined the Under Graduate programme and they can be trained to lead the Geo Scientist of the country. * Since Mineral and Oil explorations largely taken place the students will have opportunity to get decent employment. * GIS and Remote Sensing Laboratory will help the students to get trained in the field to take up jobs in ISRO and NRSA. **Challenges** * All the senior teachers are retiring shortly. * Girls students are seeking admission in large numbers. * Core Geology Research is slowly losing its importance and applied aspects are taken up for research.
39	Future plans of the department. * M.Sc. Geophysics curriculum will be introduced from the year 2016-2017. * Research on Shoreline changes and Sea level changes of Tamil Nadu coast, Sedimentology, GIS and Remote Sensing will be given priority. * The Department will be upgraded into Center for Excellence in Earth Sciences with financial support from Corporates.

Evaluative Report of the Department of

Mathematics



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EVALUATIVE REPORT OF THE DEPARTMENT OF MATHEMATICS

1	Name of the Department & its Year of Establishment	:	PG and Research Department of Mathematics, 1957
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	∗ B.Sc. Mathematics ∗ M.Sc. Mathematics ∗ M.Phil. Mathematics (Full Time & Part Time) ∗ Ph.D. (Full Time & Part Time)
3	Interdisciplinary courses and departments involved Interdisciplinary courses on Quantitative Aptitude – I and Quantitative Aptitude – II are offered to the students of Commerce, Economics, Tamil, Business Administration, Computer Science.		
4	Annual / semester/choice based credit system	:	Choice Based Credit System
5	Participation of the department in the courses offered by other departments ∗ Allied courses are offered to the students of Physics, Chemistry, Geology, Computer Application, Computer Science. ∗ Students of Mathematics study courses on Energy Physics, Laser Physics, Geology and Environment etc.		
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	03	03
	Assistant Professors	16	14

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Mr. M. Senthilvel	M.Sc., M.Phil.,	Asso. Prof. & Head	Graph Theory	33 years	---
2.	Dr. D.Muthuramakrishnan	M.Sc., M.Phil., B.Ed, Ph.D.,	Asso. Prof.	Graph Theory	21 years	---
3.	Dr. P.Shanmuganandham	M.Sc., M.Phil., Ph.D.,	Asso. Prof.	Number Theory Theory	23 years	---
4.	Dr. A.Vijayasankar	M.Sc., M.Phil., PGDCA, M.Ed., Ph.D.	Asst. Prof.	Number Theory	20 years	---
5.	Dr. S.Sriram	M.Sc., M.Phil., Ph.D.,	Asst. Prof.	Number Theory	17 years	---
6.	Dr. Manju Somanath	M.Sc., M.Phil., Ph.D.,	Asst. Prof.	Number Theory	13 years	01
7.	Mr. K. Raja	M.Sc., M.Phil., PGDCA,PGDOR,	Asst. Prof.	Number Theory	9 years	---
8.	Ms. K. Srividhya	M.Sc., M.Phil., SET.,	Asst. Prof.	Stochastic Processes	10 years	---

9.	Ms. V. Sangeetha	M.Sc., M.Phil.	Asst. Prof.	Number Theory	3 years	---
10.	Ms. I. Jenifer	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Number Theory	2 years	---
11.	Mr. K.Thirunavukkarasu	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Algebra	2 years	---
12.	Ms. E. Premalatha	M.Sc., M.Phil.	Asst. Prof.	Number Theory	2 years	---
13.	Ms. C. Sheela	M.Sc., M.Phil., PGDCA., B.Ed.	Asst. Prof.	Graph Theory	3 years	---
14.	Mr. S. Arun	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Algebra	1 year	---
15.	Ms. K.C. Uma	M.Sc., M.Phil., B.Ed.	Asst. Prof.	---	1 year	---
16.	Ms. J. Florance Mary	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Graph Theory	3 years	---
17.	Ms. P. Gowthami	M.Sc., M.Phil.,	Asst. Prof.	Algebra	2 years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	B.Sc. - 15% M.Sc. - 10%
9	Programme-wise Student Teacher Ratio	:	UG - 40:01 PG - 25:01
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Nil
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	Nil
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	Nil
13	Research facility / Centre with • State recognition • National recognition • International recognition	:	Ramanujan Mathematical Society, a renowned professional body with more than 1,500 members across the world is located in the College.
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	83
	Monographs	:	---
	Chapter(s) in Books	:	---
	Editing Books	:	---
	Books with ISBN numbers with details of publishers	:	---
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	125
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	01-02
	h-index	:	---

15	Details of patents and Income generated	:	---
16	Areas of consultancy and Income generated	:	---
17	Faculty recharging strategies * Attend Orientation/Refresher programme * Attend Seminar/Conference/Workshop * Publishing Research papers * Act as resource person in the Seminar/Conference organized in other institutions. * Inviting eminent scholars for the association meeting.		
18	Student projects	:	---
	• Percentage of students who have done in-house projects including inter-departmental	:	100%
	• Percentage of students doing projects in collaboration with industries/institutes	:	---
19	Awards / recognitions received at the national and international level by		
	• Faculty	:	Dr. D. Muthuramakrishnan is a Syndicate member of Bharathidasan University, Tiruchirapalli.
	• Doctoral / post doctoral fellows	:	--
	• Students	:	--
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.	:	--
21	Student profile course-wise:		

Name of the programme	Year	Applications received	Selected		Pass %	
			M	F	M	F
B.Sc.(Aided & un-aided)	2011-12	102	51	25	26	95
	2012-13	120	55	20	35	94
	2013-14	145	60	42	18	---
	2014-15	165	66	40	26	---
M.Sc.(Aided & un-aided)	2011-12	110	35	20	15	98
	2012-13	130	38	16	22	97
	2013-14	146	50	20	30	98
	2014-15	162	52	30	22	---

	M.Phil.(Full Time & Part Time)	2011-12	101	18	12	06	100
		2012-13	107	19	13	06	100
		2013-14	112	42	22	20	100
		2014-15	125	44	24	20	---

22 Diversity of Students

Name of the Course	**Year**	**%of students from the same state**	**% of students from other States**	**%of students from abroad**
B.Sc.	2011-12	100	---	---
	2012-13	100	---	---
	2013-14	100	---	---
	2014-15	100	---	---
	2015-16	100	---	---
M.Sc.	2011-12	100	---	---
	2012-13	100	---	---
	2013-14	100	---	---
	2014-15	100	---	---
	2015-16	100	---	---
M.Phil.	2011-12	100	---	---
	2012-13	100	---	---
	2013-14	100	---	---
	2014-15	100	---	---
	2015-16	100	---	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	10

24 Student Progression

Student Progression	**Percentage against enrolled**
UG to PG	60%
PG to M.Phil.	85%
PG to Ph.D.	20%
Ph.D. to Post-Doctoral	---

	Employed • Campus selection • Other than campus recruitment		--- 25% 50%
	Entrepreneurs		20%
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		75
	From other universities within the State		12.5
	From other universities from other states		12.5
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. Ph.D. - 04 Dr. P. Shanmuganantham Dr. S. Sriram Dr. D. Muthuramakrishnan Dr. A. Vijayasankar		
27	Present details about infrastructural facilities		
	a) Library	:	5,520 books
	b) Internet facilities for staff and students	:	02 Computers with Internet Facility
	c) Total number of class rooms	:	11
	d) Class rooms with ICT facility	:	2
	e) Students laboratories	:	1
	f) Research laboratories	:	--
28	Number of students of the department getting financial assistance from College.	:	--
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	As the demand for the Mathematics was found to be increased, B.Sc. Mathematics - Addition Section has been introduced.
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes. Faculty suggests changes to be made on curriculum and teaching learning process. There suggestions are incorporated during the revision of the curriculum.

	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes. The department takes necessary actions to fulfill the needs of the students.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	No
31	List the distinguished alumni of the department (maximum 10) 1. Dr. N. Sridhar – Professor of Mathematics (Retd.), Alagappa University, Karaikudi. 2. Dr. A. Vijayasankar, Asst. Prof. Dept. of Mathematics, National College. 3. Mr. K. Venkatesan, Infosys, Mysore. 4. Dr. Palanivel, Professor, Kalasalingam University, Srivilliputur.		
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts * Training programs on LaTeX * Endowment Lectures * Coaching classes for CSIR-UGC NET/SET examinations The following special lecture programmes were conducted by Mathematics Association during the last four years. 1. Dr. V. Lakshmana Gomathi Nayagam, Asst. Prof. Dept. of Mathematics, NIT, Trichy delivered a lecture on Introduction to Fuzzy Logic and its Applications on 12.08.2011. 2. Dr. B. Gayathri, Asso. Prof. Dept. of Mathematics, EVR College, Trichy delivered a lecture on Graph Theory on 26.09.2011. 3. Dr. R. Srikanth, Asso. Dean, Dept. of Mathematics, SASTRA University, Thanjavur delivered a lecture on the basis of Number Theory on 08.02.2012. 4. Dr. M.A. Gopalan, Asso. Prof. Dept. of Mathematics, Shrimathi Indira Gandhi College, Trichy delivered a lecture on Second order Ramanujam Number on 07.03.2012. 5. திரு. விஜயராகவன், அவர்கள் 27.09.2013 அன்று வேதக்கணிதம் பற்றி சிறப்புரையாற்றினார். 6. Dr. A. Ramesh Babu, Asst. Prof. Dept. of Mathematics, SASTRA University, Kumbakonam delivered a lecture on Singular Perturbation Problems and its applications on 05.10.2012. 7. Dr. A. Nagoorgani, Asso. Prof. Dept. of Mathematics, Jamal Mohamed College, Trichy delivered a lecture on Intuitionistic Fuzzy Set and its Applications on 11.10.2012. 8. Mr. A. Mohan, Asst. Prof. and Head, Dept. of Mathematics, Saranathan College of Engineering, Trichy delivered a lecture on How to Crack UGC-CSIR/SET exams on 15.10.2012.		

	9. Dr. S. Rubanraj, Asso. Prof. and Head, Dept. of Mathematics, St. Joseph's College, Trichy delivered a lecture on Applications of Differential Equations in Real Life on 18.02.2013. 10. Dr. S. Senthamizhselvi, Asst. Prof. Dept. of Mathematics, Govt. Arts College, Trichy delivered a lecture on Role of Mathematics in various fields on 20.08.2014. 11. Dr. N. Sridharan, Retired Prof. Alagappa University, Karaikudi delivered a lecture on Fractals on 31.07.2015. 12. Dr. V. Saavithri, Head and Asst. Prof. PG and Research Department of Mathematics, Nehru Memorial College, Puthanampatti delivered a lecture on Radon Transform and Image Processing on 08.10.2015.
33	List the teaching methods adopted by the faculty for different programmes. ∗ Power Point Presentation ∗ Smart Board ∗ Models ∗ Chalk and Talk ∗ Field Trips
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? ∗ It is ensured by the subject experts in the board of studies. Learning outcomes are monitored through the placement cell in the college ∗ Students are assessed based on the Assignments, Seminar Classes, CIA test and end semester examinations.
35	Highlight the participation of students and faculty in extension activities. **Extension Activity of the Students** Ms. M. Iswarya, M.Sc., Mathematics participated in the 5th National level tournament held at Mumbai and won Gold medal in Kung Fu Competition. Altogether she competed in 23 tournaments and bagged 21 Gold medals. Many students participate in NCC, NSS, Rotaract, Fine Arts and other club activities in the College. **Extension Activity of staff member(s)** ∗ Capt. Dr. D. Muthuramakrishnan is the ANO of NCC Armd Sqn unit of the College. He was the Leader for Tamil Nadu Contingent for Republic Day parade in 2012.
36	Give details of "beyond syllabus scholarly activities" of the department. ∗ The department organize NACOMAT, an intercollegiate competitions for Mathematics students, every year.

	* Eminent Mathematicians are invited to deliver special lecture. * The Department conducts Dr. R. Balakrishnan Endowment Lecture every year. * Ramanujan Mathematical Society and the department jointly conducts an outreach programme on Advanced Mathematics for PG students and Research scholars. * One week training programme LaTeX is organized by the department every year.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	NO
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strength** * The department continues to enjoy the status of the most preferred department by the students from rural areas * Good student staff relationship the students have freedom of expression and there is a mutual trust. * Committed teachers and a vibrant curriculum **Weakness** * Insufficient infrastructure like internet facility for the students * Lack of regular faculty ,separate computer lab and smart class **Opportunity** * Now the trend of preferring engineering education started reversing, hence it is expected that this will promote quality input and subsequently enriched graduates in mathematics * Liberal Funding by the UGC for research and development * Support by the Alumni of the department **Challenges** * Since more than 90% of the students are educated in the regional language, their communication skills are to be attended * There is a need for bridge courses / remedial courses for slow learners * To alleviate the fear of mathematics and to promote mathematics as a tool to learn any subject		
39	Future plans of the department. The department has plan to introduce the following new programmes. * Post Graduate in Operations Research * Post Graduate Diploma in Operations Research * Certificate courses in LaTeX & SPSS * Post Graduate Diploma in Actuarial Sciences		

Evaluative Report of the Department of

Physical Education

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DEPARTMENT OF PHYSICAL EDUCATION

1	Name of the Department & its Year of Establishment	:	Research Department of Physical Education and Sports Sciences / 2012
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc., M.Phil. and Ph.D. on Physical Education.
3	Interdisciplinary courses and departments involved	:	Yoga and General Fitness courses are offered to students of Geology, Botany and Commerce as NME.
4	Annual / semester/choice based credit system B.Sc. - Semester with CBCS M. Phil. - Semester with CBCS Ph.D. coursework - As per UGC Norms		
5	Participation of the department in the courses offered by other departments	:	Students study English, Computer Application, Tamil and Geology and Environment as Non Major Electives in the respective department.
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	01	01
	Assistant Professors	03	03

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. D. Prasanna Balaji	M.P.Ed., M.Phil., Ph.D.	Head& Director	Soccer & Training Methods	16 Years	7
2.	Mr. D. Boopathy	M.P.Ed., M.Phil., Ph.D.,	Assistant Professor	Gymnastics & Training Method	3 Years	7
3.	Mr. R.N. Woreithing	M.P.Ed., M.Phil., Ph.D.,	Assistant Professor	Soccer & Training Methods	2 years	5
4.	Ms. Sheila Devi	M.P.Ed., M.Phil.	Assistant Professor	Yoga & Training Methods	1 Year	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	-Nil-
9	Programme-wise Student Teacher Ratio	:	B.Sc. - 30:1 M.Phil. - 5:1 Ph.D. - 8:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Academic support staff - 3
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. National – 01 ∗ Dr. D. Prasanna Balaji conducts a Minor Projects sponsored by UGC-SERO, Hyderabad Rs. 2,45,000/-		
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received		---
13	Research facility / Centre with • State recognition The department has facilities like indoor and outdoor stadium, Multi point gymnasium and playgrounds for all games. Sports equipments are sufficiently available. Intercollegiate and Inter University tournaments are organized. • National recognition • International recognition		
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	56
	Monographs	:	0
	Chapter(s) in Books	:	6
	Editing Books	:	6
	Books with ISBN numbers with details of publishers	:	8
	Number listed in International Database	:	---
	Citation Index – range / average	:	10
	SNIP	:	---
	SJR	:	---

	Impact Factor – range / average	:	3.18
	h-index	:	40
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated Employees of V-DART Software Solutions private Ltd. are given special coaching for fitness and mental health as a consultancy services.		
17	Faculty recharging strategies * Attending National and International Workshops /Conferences /Symposiums /Seminars. * Visit to other National/International matches and Stadiums. * Attending Refresher courses.		
18	Student projects	:	
	1. Percentage of students who have done in-house projects including inter-departmental	:	Nil
	2. Percentage of students doing projects in collaboration with industries/institutes	:	Nil
19	Awards / recognitions received at the national and international level by Faculty Dr. D. Prasanna Balaji, Physical Director has received outstanding sports trainer Pre RD/NSS/Delhi during 2012, 2013, 2014, and 2015.		
	* Doctoral / post doctoral fellows	:	Nil
	* Students 1. Mr. B. Mugesh, B.Sc. Physical Education represented India in Cycling in Asian Cycling Competition held in Delhi In 2013. 2. Mr. K. Vishnu Narayanan, II B.Sc. Physical Education, participated as Indian representative in Yoga at BRICS 2015 held in Moscow from 26th Aug to 6th Sep 2015. He also demonstrated Yoga in the presence of the Prime Minister of India, Mr. Narendra Modi and President of Russia Mr. Vladimir Putin 3. Mr. R. Mothi Arun, I B.A English, won National Junior Championship in Dec 2015. 4. Ms. A. Chandralekha, I B.A English secured Gold Medal in 100 and 200 meters in the National Athletic Championship held in Patiala, Punjab during Dec 2015. 5. Ms. M. Iswarya, M.Sc., Mathematics participated in the 5th National level tournament held at Mumbai and won Gold medal in Kung Fu Competition. Altogether she competed in 23 tournaments and bagged 21 Gold medals.		

20 Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

National

- Conference titled "Doping in Sports" / 13th September 2015 / Self supported
- Workshop on "Latest Trends in Sports" / 17th February 2015 / Self supported
- Seminar titled "Sports as a Career" / 28th February 2015 / Self supported
- One- Day Workshop on "Swiss ball" / 9th March 2014/ Self supported
- One-Day Workshop on "Scientific aspects of Yoga" / 20th February 2014/ Self supported
- Seminar titled " Adapted Physical Education" /25th August 2011/ Self supported

International

- Conference titled "ICRS" / 13th September 2015 / UGC

21 Student profile course-wise:

	Name of the Course (refer question no. 2)	**Applications received**	**Selected**		**Pass percentage**	
			M	**F**	**M**	**F**
	B.Sc. (2012-2015)	16	13	3	96	98
	B.Sc. (2013-2016)	45	18	3	-	-
	B.Sc. (2014-2017)	48	28	2	-	-
	M.Phil. (2013-2014)	5	5	---	-	100
	M.Phil. (2014-2015)	5	3	2	100	100

22 Diversity of Students

	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	B.Sc. (2012-2015)	NA	100	Nil	Nil
	B.Sc. (2013-2016)	NA	100	Nil	Nil
	B.Sc. (2014-2017)	NA	100	Nil	Nil
	M.Phil. (2013-2014)	NA	60	40	Nil
	M.Phil. (2014-2015)	NA	60	40	Nil

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	Nil

24	Student Progression		
	Student Progression		**Percentage against enrolled**
	UG to PG		50%
	PG to M.Phil.		---
	PG to Ph.D.		---
	Ph.D. to Post-Doctoral		NA
	Employed • Campus selection • Other than campus recruitment		 --- 60%
	Entrepreneurs		---
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		---
	From other universities within the State		25%
	From other universities from other states		75%
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	---
27	Present details about infrastructural facilities		
	a) Library	:	∗ 200 books ∗ 200 e-books in the form of e-library maintained in the department for benefit of students
	b) Internet facilities for staff and students	:	Wi-Fi Internet connectivity is available in the department.
	c) Total number of class rooms	:	05
	d) Class rooms with ICT facility	:	01 (LCD Projectors – 1)
	e) Research laboratories	:	Exercise Physiology
28	Number of students of the department getting financial assistance from College. All the SC/ST/BC students receive scholarship from Govt. of Tamil Nadu. 10 outstanding sports students are given free boarding lodging every year.		
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	---

30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes, Incorporate their inputs/suggestions in improving the curriculum / teaching-learning-evaluation process.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes, Their suggestions were incorporated in the curriculum/ teaching-learning-evaluation process.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Yes, They appreciate the infrastructure facilities, staffs and overall functioning of the department.
31	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts 2015-2016 ∗ Mr. C. Vijay, CEO, Smart Wellness, Chennai, one day Workshop on "Swiss ball" on 18th Dec 2015. ∗ Padmashri. V. Bhaskaran, Former Indian Hockey team Captain, two time Olympian delivered a special lecture on "Sports as a career" on 20th Sep 2015. ∗ Dr. Sampath, Physical Director, Department of Physical Education, IIT Campus, Coimbatore, delivered a special lecture on "Scope of Physical Education in India" on 13th January 2015. ∗ Dr. Jothi Dayanandan, Associate Professor, YMCA College of Physical Education, Chennai, delivered a lecture titled "Science of Aerobics" on 21st July 2015. ∗ Dr. S.N. Nagaraj, Special Olympics Director, South Asia Specific, delivered a special lecture titled "Adapted in Physical Education" on 4thJan 2015. ∗ Dr. Shankar, Indian Volleyball Player, captain Indian Volley ball team, delivered a special lecture titled "Volleyball" on 18th March 2015.		
33	List the teaching methods adopted by the faculty for different programmes ∗ Delivering lectures with the help of ICT facility ∗ Submission of Students Assignments and Seminars ∗ Describing complex concepts using physical and computational models ∗ Encouraging student participation in International and National programmes		

34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * Timely Completion of Curriculum * Extra Classes and Counseling for Needy students is given * Continuous Internal Assessment * End Semester Examinations		
35	Highlight the participation of students and faculty in extension activities. * Dr. D. Prasanna Balaji (Head and Director), National College NSS Coordinator/YUVA Coordinator. * Mr. D. Boopathy (Assistant Professor)- Vice President of the department. * Many students are Cadets of NCC and Volunteers of NSS unit of our college. * Many students are members of YUVA club, a student wing of young Indians (CII) * The achievement of students in Sports is given in section 19.		
36	Give details of "beyond syllabus scholarly activities" of the department. * Eminent Academicians, Scientists and Visitors to the department interact with students to motivate them. Former Indian Cricket Captain Mr. Bishan Singh Bedi, Mr. Srikanth, Special Olympics Director Mr. Nagaraj have interacted with the students. * Summer Camp is organized every year for School students to train them in their respective area of interest. * Intercollegiate staff cricket tournament is conducted every year. * Summer internships for the in-house students enable them to improve their laboratory and research skills		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	---
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strengths** Practical Oriented, Infrastructure Facilities (Equipment, books & Journals other Facilities) Indoor Stadium, Outdoor Stadium, Multi-Gym, AV Method, Lecture Demonstration, On-field training, International Journal –(Health Fitness and Sports Sciences) Bi-annual **Weakness** Spoken English and English as the medium of instruction		

	Opportunity Attracting more funds for handling research, steps to improve student enrollment, enhancing research publications, training students for clearing competitive examinations. **Challenges**: Student enrollments, Performing Cutting-Edge research, improving application oriented research, Rural Students
39	Future plans of the department. * Applying for research grant from various funding agencies * Improving curriculum to match international standards. * Train the students in athletics for International level sports meet. Proposal in action for 1. Swimming Pool 2. Tennis Court 3. Standard 400 mts Track 4. Basketball Court 5. Volleyball Court 6. Hi-Tech Gym 7. Multipurpose Open ground - Proposal in plan for World Sports Congress-2017

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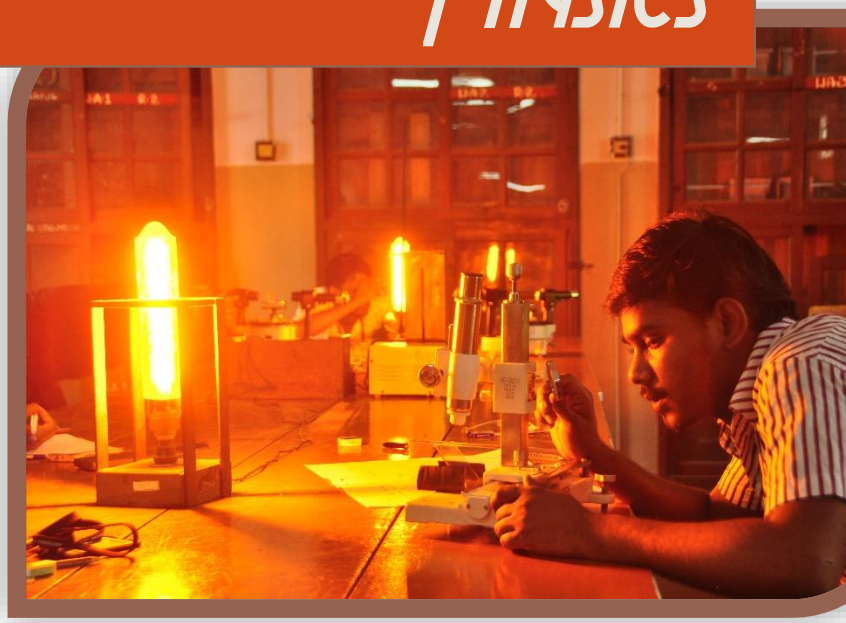
Evaluative Report of the Department of

Physics



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DEPARTMENT OF PHYSICS

1	Name of the Department & its Year of Establishment	:	Physics - 1927
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc. Physics M.Sc. Physics M.Phil. and Ph.D. Physics
3	Interdisciplinary courses and departments involved	:	The students of Mathematics, Geology and Chemistry are offered Energy Physics, Laser Physics as NME
4	Annual / semester/choice based credit system	:	B.Sc. - Semester and CBCS M.Sc. - Semester and CBCS M. Phil. - Semester and CBCS Ph.D. coursework - As per UGC Norms
5	Participation of the department in the courses offered by other departments	:	Cosmetics Chemistry — Chemistry Geology and Environment — Geology Vermiculture — Zoology Gandian Thought — Philosophy Sirappu Tamil — Tamil
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	Nil	Nil
	Associate Professors	07	07
	Assistant Professors	10	10

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr.S Pari	M.Sc., M.Phil., Ph.D., PGDCA, B.Ed.	Associate Professor & Head	Crystal Growth & Nano technology	23 Years	---
2.	Dr.A.T.Ravichandran	M.Sc., M.Phil., Ph.D., PGDCA, B.Ed.	Associate Professor	Crystal Growth, Thinfilms & Nanotechnology	27 Years	---
3.	Mr.M.Elanthiraiyan	M.Sc., M.Phil., B.Ed.	Associate Professor	Bio Physics and Spectroscopy	24 Years	---
4.	Dr.S.Ravi	M.Sc., M.Phil., Ph.D.	Associate Professor	Drug delivery mechanism	24 Years	---
5.	Dr.T.V.Sundar	M.Sc., M.Phil., Ph.D.	Associate Professor	X- Ray Crystallography & Bio informatics	17 Years	---
6.	Dr.R.Ramasamy	M.Sc., M.Phil., Ph.D., M.Ed. PGDCA, PGDDI, M.Phil (Edu),PGHET	Associate Professor	Vibrational Spectroscopy, Materials Science and Liquid State Physics.	25 Years	---
7.	Dr.S.Kumaresan	M.Sc., M.Phil., Ph.D., PGDCA, B.Ed.	Associate Professor	Thin Films	24 Years	---

8.	Dr.S.Kumaresan	M.Sc., M.Phil., PGDCA	Assistant Professor	Liquid State Physics	9 Years	---
9.	Mr.B.S.Sri Kanth	M.Sc., M.Phil., PGDCA	Assistant Professor	Liquid State Physics	24 Years	---
10.	Dr.S.Muruganantham	M.Sc., M.Phil., Ph.D., PGDCA,PGDHET	Assistant Professor	Nuclear Physics &Thin Films	15 Years	---
11.	Mrs.A.Shanthi Devi	M.Sc. B.Ed, M.Phil., PGDCA.	Assistant Professor	Crystal Growth	13 Years	---
12.	Dr.M.Iyanar	M.Sc., M.Phil., B.Ed., Ph.D., PGDHET	Assistant Professor	Crystal Growth	14 Years	---
13.	Dr.J.Geetha Priya	M.Sc., M.Phil., Ph.D.	Assistant Professor	Density Functional Theory Analysis	10 Years	---
14.	Mr.P.Jaikumar	M.Sc., M.Phil., Ph.D.(doing), PGDCA, M.Ed.	Assistant Professor	Crystal Growth	4 years	---
15.	Mr.C.Benjamine	M.Sc., M.Phil., Ph.D.(doing), PGDCA, B.Ed.	Assistant Professor	Field Mechanics	15 years	---
16.	Mr.S.Sivakumar	M.Sc., M.Phil.	Assistant Professor	Spectroscopy	3 years	---
17.	Mrs.G.Pragadeeswari	M.Sc., M.Phil.	Assistant Professor	Crystal Growth	5½ years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	Nil
9	Programme-wise Student Teacher Ratio		U.G - 45:1 P.G - 25:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Sanctioned - 05 Filled - 04
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	U.G.C - 01 DRDO - 01

Name of PI	**Name of the sponsoring agency**	**Title of the project**	**Amount sanctioned Rs.**
Dr.A.T.Ravichandran	Major Research Project UGC XII plan	Bulk growth of Triglycine Sulphate (TGS) and Potassium acid phthalate(KAP) Single Crystals for Device Fabrication	12,26,200/-
Dr.S.Ravi	Defence Research Development Organisation, Government of India, New Delhi, India. (DRDO) ERIP/ER/0804422/M/01/1447/Dt.28th Sep 2012 - 1ST October-2012 onwards. - 3 Years	Experimental and theoretical characterization of specific Nano drug delivering fluoro carbon emulsions using ultrasound	14,77,000/-

12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	Nil

13	Research facility / Centre with • State recognition Crystal Growth facility in the department is used by researchers from all parts of Tamilnadu. NCIF has Vicker's Microhardness tester which is an instrument widely used by researchers in the region. • National recognition • International recognition		
14	Publications		
	Number of papers published in peer reviewed journals (National / International)	:	90
	Monographs	:	Nil
	Chapter(s) in Books	:	Nil
	Editing Books	:	02
	Books with ISBN numbers with details of publishers	:	---
	Number listed in International Database	:	---
	Citation Index – range / average	:	15-25
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	0.5 to 4
	h-index	:	1 to3
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated	:	Nil
17	Faculty recharging strategies a)National committees b)International Committees c)Editorial Boards Staff have membership in the following professional bodies. * Indian Association for Crystal Growth, Indian Laser Association * Indian Physics Association, Tamil Nadu Science Forum * Luminescence Society of India: Karnataka chapter (LSIKC) * Materials Research Society of Singapore, Acoustical society of India * Staff have also organized and participated National/International Seminar and Workshops.		

18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	90% of students of II P.G do their project in the home Department. Some of the students do their project as Inter Departmental Work.
	• Percentage of students doing projects in collaboration with industries/institutes	:	10% in BHEL Trichy, NIT Trichy, SSN College, IGCAR, Kalpakham.
19	Awards / recognitions received at the national and international level by • Faculty • Doctoral / post doctoral fellows • Students		Dr.R.Ramasamy**,** Aim Insights Award-Awarded by Mangalore University.HRD Programme-10 days HRD Facilitator Programme conducted by AIM insights HRD Group, Mangalore.
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. National : 07 - UGC and self supported 1. Golden Jubilee Endowment Seminar on **Latest Trends in Physics** was organized by the Department of Physics on 19-01-2012. 2. UGC Sponsored National Seminar on **Recent Trends in Crystal Growth and Nano Materials (NSCGNM 2012)** was organized by the Department of Physics from 15-03-2012 to 17-03-2012. 3. Two Day State Level Conference on **Emerging Trends in Materials synthesis and Characterization (ETMSC 2013)** was organized by the Department of Physics on 19-01-2013 and 20-01-2013. 4. UGC Sponsored National Seminar on **Recent Trends in Crystal Growth and Nano Materials (NSCGNM 2013)** was organized by the Department of Physics from 13-03-2013 to 15-03-2013. 5. The Department of Physics organized a National Seminar on **Recent Trends in Crystal Growth and Nano Materials** from 07.08.2014 to 09.08.2014. 6. The Department of Physics conducted a Workshop on **Materials Synthesis and characterization** for Research scholars on 06.09.2014 7. The Department of Physics organized a UGC Autonomy grant sponsored one day National Workshop on **Crystal Growth, Thin Flims and Solar Cells (WCTS-2015)** on 4th September, 2015. International : Nil		

21	Student profile course-wise:					
	Name of the Course (refer question no. 2)	**Applications received**	**Selected**		**Pass percentage**	
			M	**F**	**M**	**F**
	B.Sc., (2010-2013)	121	30	13	52.84	23.28
	B.Sc., (2011-2014)	121	22	16	44.26	34.21
	B.Sc., (2012-2015)	118	29	09	48.72	15.38
	B.Sc., (2013-2016)	129	24	18	42.66	42.85
	M.Sc., (2011-2013)	46	11	11	37.41	45.45
	M.Sc., (2012-2014)	52	15	09	56.38	37.5
	M.Sc., (2013-2015)	49	13	07	66.43	30
	M.Sc., (2014-2016)	52	17	04	73.73	14.28
	M.Phil., (2012-2013)	29	08	07	53.3	46.6
	M.Phil., (2013-2014)	25	08	06	57.15	42.85
	M.Phil., (2014-2015)	22	18	02	90	10
	M.Phil., (2015-2016)	11	13	02	86.7	13.3

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	B.Sc.	---	100%	Nil	Nil
	M.Sc.	50%	100%	Nil	Nil
	M.Phil.	10%	100%	Nil	Nil
	Ph.D.	10%	100%	Nil	Nil

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	Nil

24	Student Progression	
	Student Progression	**Percentage against enrolled**
	UG to PG	65%
	PG to M.Phil.	20%
	PG to Ph.D.	3%
	Ph.D. to Post-Doctoral	---

	Employed • Campus selection • Other than campus recruitment		---
	Entrepreneurs		---
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		92%
	From other universities within the State		8%
	From other universities from other states		---
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	Ph.D. – 03 Dr. S. Muruganantham Dr. M. Iyanar Dr. J. Geetha Priya
27	Present details about infrastructural facilities		
	a) Library	:	5040Books
	b) Internet facilities for staff and students	:	WI-FI available
	c) Total number of class rooms	:	05
	d) Class rooms with ICT facility	:	ICT for PG classes
	e) Students laboratories	:	Exclusive Labs for Allied / UG / PG classes.
	f) Research laboratories	:	01
28	Number of students of the department getting financial assistance from College. 1. All the UG/PG/M.Phil. students of SC/ST/OBC students get Govt. scholarship. 2. Mr. V. Natchimuthu – Receiving DRDO sponsored project JRF/SRF salary. For doing his Ph.D. 3. Mrs. Judith Jeyarani – Receiving UGC Sponsored project JRF/SRF salary.		
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. Yes. The staff members interact with fellow Physics teachers of colleges at the inter and intra university level from time to time about the various courses taught in the respective institution and students expectation/ responses. Based on these information and on the local viability for implementation, new programmes are introduced in the curriculum.		

30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes, Incorporate their inputs/suggestions in improving the curriculum / teaching-learning-evaluation process.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes, Their suggestions were incorporated in the curriculum/ teaching-learning-evaluation process.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Yes. Collected responses are discussed in the department meeting and appropriate measures and future plan is strategies are devised.
31	List the distinguished alumni of the department (maximum 10) 1. Dr.R.Ranganathan, Senior Scientist, SAHA Institute of Nuclear Physics, Hyderabad 2. Dr.N.Sundararajan, Former Vice-chancellor, Jain University, Bangalore 3. Dr.K.Meena, Former Vice-chancellor, Bharathidasan University, Tiruchirappalli 4. Mr.Shivaji, Former SP, CBI 5. Dr.Kuppusamy, Former Director, Forensic Department 6. Dr.R.Jaganathan, Former Head (Rtd.), PG Dept of Physics, D.G.Vaishnav College, Chennai and Former Vice- Chancellor, Middle East University, United Arab Emirates. 7. Dr.J.Madhavan, Dept. of Physics, Loyola College, Chennai. 8. Mr.Venkatesh, DIG, Coast Guard, Ramanathapuram 9. Dr.K.Sundararaman, Retd. Senior Scientist, IIAP, Kodaikanal 10. Mr.M.Mohan, Retd.DGM, BSNL, Chennai 11. Mr.M.Sathyamoorthy, GM, SB Automobiles LLC, Sultanate of Women		
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts : Students are motivated to take part in seminars- paper presentation and other academic competitions conducted in the neighboring institutions and reputed colleges and universities. Also they are encouraged for summer research programmes regularly conducted at research institutions. PG students regularly undergo field drips to research institutions.		

	The following special lecture programmes were conducted by Physics Association during the last four years. ∗ Dr. K. Srinivasa Rao, Director, Srinivasa Ramanujam Academy of Maths Talent, Chennai delivered a lecture on Sanitary of the Discovery of Nucleus on 20.07.2011. ∗ Dr. S. Rajendran, Professor, Dept. of Physics, Alagappa University, Karaikudi delivered a lecture on Recent Trends on Polymer Electrolytes on 16.02.2012. ∗ Dr. P.S. Joseph, Principal, Thanthai Hans Roever College delivered a lecture on Photonics-A Technology for Today and Tomorrow on 19.03.2012. ∗ Dr. S. Moorthy Babu, Crystal Growth Centre, Anna University, Chennai delivered a lecture on Recent Developments in Material for Photo Voltaic Solar Cell Devices on 10.07.2013. ∗ Dr. Solai Jeyakumar, University of Guanajuato, Mexico delivered a lecture on Active Galactic Nuclel – the tantrum of Black Hole on 12.08.2013. ∗ Dr. M. Arivanantham, Prof. Nano Devices and Nano Materials Division, Shizouka University, Japan delivered a lecture on Nano Crystal Preparation on 07.03.2013. ∗ Dr. K. Ganesamurthy, Asso. Prof. of Physics, Urumu Dhanalakshmi College, Trichy delivered a lecture on Recent Trends in Physics on 21.03.2014. ∗ Thiru. I.K. Lenin Tamilkovan, Director, Anna Science Planetarium, Trichy delivered a lecture on Scientific Concepts which influence our day to day life on 30.07.2014. ∗ Dr. N. Vijayan, Scientist, National Physical Laboratory, New Delhi delivered a lecture on Crystal Growth Technology and its various applications on 16.09.2014.		
33	List the teaching methods adopted by the faculty for different programmes.		
	U.G	:	Lectures, Assignments, Problem Solving, Exercise, Lecture Notes, ICT tools
	P.G	:	Lectures, Assignments, Problem Solving, Exercise, Lecture Notes, ICT tools, Seminars, Projects, Special Invited Lectures
	M.Phil. &Ph.D.	:	Self Learning Assignments, Seminars, Conferences, Workshop, Lab Visits, Group Discussions
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored?	:	∗ By regular monitoring of CIA parameters prescribed by the college. ∗ All the students have lands on training in all the equipments during practicals.

35	Highlight the participation of students and faculty in extension activities. ∗ Every year Quiz and other talent competitions are organized on the World Science Day for the students of the department. Many students participate and won prizes. ∗ As a part of Golden Jubilee Celebration a Science Exhibition was conducted for the School students. ∗ Many of the UG students enroll themselves in NSS, NCC, YRC, ROTRACT and other club activities. They contributed much for the development of the college as well to the society. Apart from teaching staff members involve themselves to act as coordinator for all the club activities. The placement cell is very much active in our College. ∗ Dr. T.V. Sundar, is the Placement Officer in the College. ∗ Mr. V. Harikrishnan is the Store In-charge of the College. ∗ Dr. M. Iyanar was the NSS Coordinator during the year 2011-2014		
36	Give details of "beyond syllabus scholarly activities" of the department. ∗ Golden Jubilee Endowment Lecture is organized every year inviting eminent Scientist from other Research organizations. ∗ We motivate the students to present paper in conferences and seminars, students are asked to conduct seminar classes. ∗ We encourage students to publish their project work done in both M.Sc., M.Phil. and Ph.D. program. ∗ Staff travel abroad to attend Conference/Seminar		
37	State whether the programme / department is accredited/graded by other agencies. Give details.	:	Nil
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department		
	Strengths ∗ Combination of experienced and young energetic faculty. ∗ More than 70% of the faculty possesses doctorate degree and many of them are actively engaged in research. ∗ Ability to organize and conduct research related activities like seminars, conferences etc. in a shorter span of time. ∗ Ability of the staff to receive sponsored projects from government agencies. ∗ Availability of spacious labs to accommodate parallel lab sessions.		

	Weaknesses * Occurrence of frequent delays in arriving at conclusions and in the execution of tasks with a common consensus on some policy matters. * Lack of equipments in proportion to the availability of work space leading to the cluttering of students to single work bench. * Laboratory related teaching, learning, expertise, knowledge sharing and work implementation problems among the staff members. * Poor pass percentage in UG program compared to other programs of the department. * The necessity to house the II UG students at a distant place from the rest of the students.
	Opportunities * There is lot of scope for the young faculty members to think, plan and execute major projects which would not only benefit them but also the enrolled student community of the department. * Being in an autonomous setup, there exist lot of opportunities for the staff members to design and implement tailor made courses for the present day students keeping in mind the latest developments, requirements and employment opportunities. * As the research programs (M.Phil., Ph.D.) form a key area of the department, the syllabus could be completely redesigned in such a way to help the students easily clear the national level research scholarship exams like, NET, GATE etc. * The medium of lecture delivery by the staff inside all the physics classrooms may completely be changed to English. Though it may invite initial resistance from the students in due course, the students would start enjoying the benefits of such practice. The familiarity and command over English acquired by the students due to forced learning would definitely motivate them towards effective higher learning.
	Challenges * To change all the spelt out weaknesses in to strengths in a very short span of time. * To admit quality students so that they could fully utilize the positive measures. * To increase the mathematical skills confidence level of students in order to make them learn physics effectively. * To produce cent percent results in all the programmes (UG, PG and Research). * To increase placement to admission ratio. * To enhance the quality of research and to publish the work in high impact factor journals.

39	Future plans of the department. * To achieve the passing percentage to 100 * To transform the department as a renowned centre for Physics learning/doing Research. * To get more sponsored projects to improve the infrastructural of the department.

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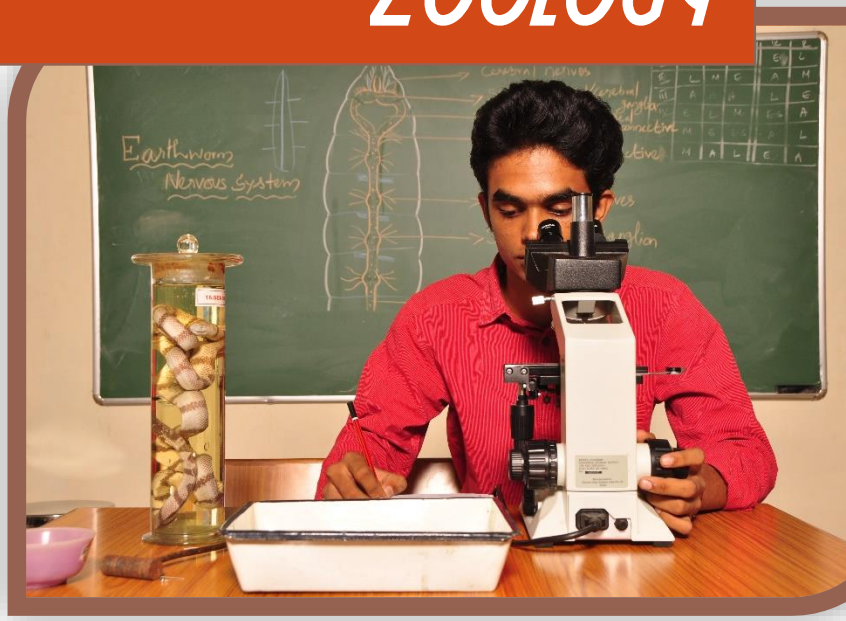
Evaluative Report of the Department of

Zoology



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DEPARTMENT OF ZOOLOGY

1	Name of the Department & its Year of Establishment	:	Post Graduate and Research Department of Zoology - 1983
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Sc. Zoology M.Sc. Zoology M.Phil. Zoology Part time/full time, Ph.D. Zoology part time/full time
3	Interdisciplinary courses and departments involved Biofertilizer and Biopesticides - Biotechnology Sirappu Tamil - Tamil Desktop Publishing - Computer Science Office Automation - Computer Science Non Major Elective course is offered by the Department of Botany		
4	Annual / semester/choice based credit system	:	Choice Based Credit System under Semester mode
5	Participation of the department in the courses offered by other departments	:	Allied course in Zoology is handled in the Department of Botany
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	02	02
	Assistant Professors	08	06

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr.P.Sivasamy	Ph.D.	Associate Professor & Head	Toxicology	28	2
2.	Dr. V. Gokula	Ph.D.	Associate Professor	Ornithology	15	4
3.	Dr.P.Sekar	Ph.D.	Assistant professor	Sericulture	1	---
4.	Dr.A.Stalin	Ph.D.	Assistant Professor	Radiation biology	6 months	---
5.	Dr. K. Govindaraj	Ph.D.	Assistant professor	Hydrobiology	6	---
6.	Mrs. S.Vigneshwari	M.Phil.	Assistant professor	Nano Technology	2	---
7.	Dr.P.K.Ramasamy	Ph.D.	Assistant professor	Vermitechnology	1	---
8.	M.Boominathan	M.Sc.	Assistant professor	Ecology	6 months	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	UG – 50% PG – 0%
9	Programme-wise Student Teacher Ratio	:	UG - 8:1 PG - 5:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Sanctioned - 3 Filled - 2
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	Nil
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	Nil
13	Research facility / Centre with • State recognition • National recognition • International recognition	:	Nil
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	94
	Monographs	:	---
	Chapter(s) in Books 1. Yamazaki, T., Nitani Y., Murate, T., Lim, K.C., Kasorndorkbua, C., Rakhman, Z., Supriatna, A. & Gombobaatar, S. 2012. *Field Guide to Raptors of Asia: Migratory Raptors of Oriental Asia. Vol.1.* Asian Raptor Research and Conservation Network. Japan. 119 pp. ISBN No. 978-602-19635-3-1. (for Indian Raptor Species) 2. V.Gokula and N.Jawahar Raj 2012. Status of vultures in Kolli Hills, Tamil Nadu, India: (in) Recent advances in biodiversity of India (Eds. Raghunathanm C., Sivaperuman, C. and Venkataraman, K.) Director, Zool. Surv. Kolkata, India. p-375-380		
	Editing Books	:	---
	Books with ISBN numbers with details of publishers	:	---
	Number listed in International Database	:	---
	Citation Index – range / average	:	219
	SNIP	:	---

	SJR	:	---
	Impact Factor – range / average	:	---
	h-index	:	13
15	Details of patents and Income generated	:	Nil
16	Areas of consultancy and Income generated	:	Nil
17	Faculty recharging strategies	:	Nil
18	Student projects	:	
	• Percentage of students who have done in-house projects including inter-departmental	:	100%
	• Percentage of students doing projects in collaboration with industries/institutes	:	Nil
19	Awards / recognitions received at the national and international level by		
	• Faculty	:	Nil
	• Doctoral / post doctoral fellows	:	Nil
	• Students	:	Nil
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.	:	None
21	Student profile course-wise:		

	Name of the Course (refer question no. 2)	**Applications received**	**Selected**		**Pass percentage**	
			M	**F**	**M**	**F**
	B.Sc., Zoology	40	16	6	56%	67%
	M.Sc., Zoology	20	4	3	100%	100%
	Ph.D. Zoology	---	3	4	---	---

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	B.Sc. Zoology	---	100	0	0
	M.Sc. Zoology	50	100	0	0
	Ph.D.	10	100	0	0

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	None
24	Student Progression		
	Student Progression		**Percentage against enrolled**
	UG to PG		An average of 50%
	PG to M.Phil.		5%
	PG to Ph.D.		15%
	Ph.D. to Post-Doctoral		Nil
	Employed • Campus selection • Other than campus recruitment		Nil 60 % employed in private sectors, Academic Institution, Aquaculture & Marine Products Processing Unit, and Clinical Laboratories
	Entrepreneurs		2% in Aqua & Poultry -farming
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		75%
	From other universities within the State		25%
	From other universities from other states		-
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	Ph.D. - 01 Dr. K. Govindaraj
27	Present details about infrastructural facilities		
	a) Library	:	The College library has 2264 books in various branches of Zoology. Important reference books are kept available for students in the Department.
	b) Internet facilities for staff and students	:	Internet facilities are available for both students and staff
	c) Total number of class rooms	:	05

	d) Class rooms with ICT facility	:	One classroom is with Information and Communication Technology (ICT) facilities
	e) Students laboratories	:	02
	f) Research laboratories	:	01
28	Number of students of the department getting financial assistance from College.	:	All SC/ST/OBC candidates receive Govt. Scholarships.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	The department has been offering B.Sc. Zoology since 1983. To upgrade the department M.Sc./Ph.D. Zoology were introduced.
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes. The Department incorporates their inputs/suggestions in improving the curriculum / teaching-learning-evaluation process.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes. The Department incorporates their suggestions for the improvement of curriculum/ teaching-learning-evaluation process.
	c. Alumni and employers on the programmes and what is the response of the department to the same? Yes. Feedback from the recently graduated alumni as well as employers is very useful to upgrade the syllabus in tune with the requirements of employers. The alumni also provide inputs for improvement of teaching methods.		
31	List the distinguished alumni of the department (maximum 10) 1. Mr. S. Muthukumaran, Kemin Nutritional Technologies (India) Pvt. Ltd. The Trapezium, No.39, Second Floor, Nelson Manickam Road, Chennai – 600 029 Mob: 914442202800 2. Dr. K. Prabakaran, Assistant Professor, Department of Zoology, Jamal Mohamed College, Tiruchirappalli-620 020, Mob: 9659796999 3. Dr. P. Balasubramanian, Assistant Professor, Department of Bio-Technology, Veltech College of Arts and Science, Pallavaram, Chennai 4. Dr. Raja, Assistant Professor, Department of Zoology, Periyar EVR College, Trichy - 620023 5. Mr. P. Sekar, PG Assistant in Zoology, Govt. Higher Secondary School, Musiri		

	6. Dr. K. Anbarasu, Assistant Professor, Department of Marine Biotechnology, Bharathidasan University, Tiruchirappalli-620 024 Tamil Nadu, India. Ph:91-431-2407071 Ext.436, Fax:91-431-2407045, Email: anbubdu@gmail.com 7. Mr. S. Murugesan, PG Assistant in Zoology, Mari Amman Higher Secondary School Samayapuram, Tiruchirappalli, Mob: 9597382087 8. Mr. M. Mohan, PG Assistant in Zoology, Dalmia High Secondary School, Dalmiyapuram. Mob: 9865385425, 8925248513 9. Mr. P. Mohandos, PG Assistant in Zoology, E.M. Higher Secondary School, Virugampakkam, Chennai 10. Mr. S. S. Sivakumar, Advocate, High Court, Chennai
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts : Through Zoology Association experts in various fields are invited to deliver lectures on their respective field to enrich the knowledge of the students. Besides, students are encouraged to attend workshops and seminars organized by any other departments/other colleges/universities. Field trip is organized every year to observe the distribution of various animal species and to understand their habitats. The following special lecture programmes were conducted by Zoology Association during the last four years. 1. Dr. P. Daisy, Asso. Prof. of Zoology, Holy Cross College, Trichy delivered a lecture on Computer Aided Drug Design on 19.08.2011. 2. Dr. Abraham Stanley, Head, Toxicology, Syngene International Ltd. Bangalore delivered a lecture on Good Laboratory Practice, Regulatory toxicology and career options in toxicology on 26.07.2013. 3. Dr. E. Balamurugan, Asst. Prof. Dept. of Biochemistry and Biotechnology, Annamalai University delivered a lecture on Catalyzing Community Change in Biology Education on 03.10.2012. 4. Dr. K. Ramesh Kumar, Asst. Prof. Dept. of Zoology, Raja Serfoji Government College, Tanjore delivered a lecture on Pheromones : Microbes to Human on 04.10.2012. 5. Dr. R. Nagarajan, Asst. Prof. PG & Research Dept. of Zoology and Wildlife Biology, A.V.C. College, Mayiladuthurai delivered a lecture on Birds Behaviour and Fascinations on 05.10.2012. 6. Dr. Mohamed Shamsudin, Dean of Science and Head, PG Department of Zoology, Jamal Mohamed College, Trichy delivered a lecture on Life Style Diseases on 13.03.2014.

	7. Dr. George John, Asso. Prof. (Retd.), Dept. of Zoology, Periyar E.V.R. College, Trichy delivered a lecture on Probiotics for the human and animal health on 26.09.2014. 8. Dr. B. Padmanaban, Director-in-Charge, ICAR-National Research Centre for Banana, Trichy delivered a lecture on Pests of Banana and their management on 14.09.2015.		
33	List the teaching methods adopted by the faculty for different programmes. * Use of ICT/ Smart classroom technology * Conventional Lecture Method * Power point presentation * Using multimedia facility * Hands-on training - practical		
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * By conducting periodical tests and seminar classes to students * Assignments * End semester examinations.		
35	Highlight the participation of students and faculty in extension activities. * Students participate in various inter-collegiate academic debates, quiz, and Government (state and central) organized awareness camps. * Faculty participate in orientation, refresher courses and social awareness programs * NCC and NSS * Student participate social awareness		
36	Give details of "beyond syllabus scholarly activities" of the department. * programs (AIDS, Anti-Tobacco, Save Water, Save Earth etc.) * Webinar * Bird Watching		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	NO
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strengths** * Dedicated faculty * Rich library * Good infrastructure of the college including clean and quiet environment * Academic autonomy with the freedom to design the syllabus		

	Weaknesses * Below average student quality * Lack of awareness about the subject among + 2 students **Opportunities** * Research potential is high in the field of Zoology * Care of Pet animals is another emerging area of interest. It provides an opportunity to include it in the curriculum * Ornithology and Preservation of birds from extinction also offers scope for students of Zoology. **Challenges** * Lackadaisical interest in the subject of Zoology among the youth; * Limited scope for direct employment in the field of Zoology
39	Future plans of the department. • Interdisciplinary Research • Strengthening the PG programme • Collaborative seminars

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Evaluative Report of the Department of

Business Administration

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DEPARTMENT OF BUSINESS ADMINISTRATION

1	Name of the Department & its Year of Establishment	:	Business Administration & 1987
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.B.A.,
3	Interdisciplinary courses and departments involved	:	Stock Exchange Practices - Commerce Banking Law and Practice - Commerce
4	Annual / semester/choice based credit system	:	Semester With Choice Based Credit System
5	Participation of the department in the courses offered by other departments	:	The Department conducts Non Major courses for students of B.Sc. Mathematics, BCA, B.Sc. (CS) &B.A., English
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	---	---
	Assistant Professors	08	08

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. B. Sekar	M.Com. M.Phil., Ph.D. M.Com., M.Phil., Ph.D., MBA. MBA.	Head	Financial & Cost Accounting	20 Years	Guiding 8 Students in BARD
2.	Dr. P. Subramanian	M.Com., M.Phil., Ph.D.	Assistant Professor	Financial Accounting & HRM	14 Years	---
3.	Dr. K. Rajesh	M.A., M.Phil., Ph.D., SLET.,PGDCA	Assistant Professor	Economics & Statistics	10 Years	---

4.	Prof. R. Natarajan	M.Com. M.Phil., MBA., PGDCA.	Assistant Professor	Operations Research & Management Accounting	12 Years	---
5.	Dr. I.Irene Sundari Angelo	M.Com., M.Phil., Ph.D.	Assistant Professor	Law & Office Automation	10 Years	---
6.	Prof. R.Thirugnanasoundari	MBA., M.Phil., Ph.D..	Assistant Professor	Financial Management & ED	7 Years	---
7.	Prof. S. Jamuna Rani	MBA., M.Phil., Ph.D..	Assistant Professor	Management Concept & Business Policy	6 Years	---
8.	Prof. M. Chandra	MBA., M.Phil., Ph.D.	Assistant Professor	Cost Accounting & Business Environment	3 Years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	0%
9	Programme-wise Student Teacher Ratio	:	35:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	NIL
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	NIL
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	NIL
13	Research facility / Centre with • State recognition • National recognition • International recognition	:	It is an Under Graduate department
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	21
	Monographs	:	---
	Chapter(s) in Books	:	---
	Editing Books	:	02
	Books with ISBN numbers with details of publishers	:	---
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	---
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	---
	h-index	:	---

15	Details of patents and Income generated	:	NIL
16	Areas of consultancy and Income generated	:	---
17	Faculty recharging strategies ∗ Prof. R. Thirugnanasoundari and Prof. S. Jamuna Rani attended the following programmes. 1. Capacity Building for Women Manager in Education. 2. Gender friendly policies and initiatives in higher education organized by Bharathidasan University ∗ Faculty members attend seminars and workshops organized by other institutions ∗ They attend Orientation and Refresher Programmes organized by Academic Staff Colleges		
18	Student projects	:	---
	Percentage of students who have done in-house projects including inter-departmental	:	There is no project for undergraduate students
	Percentage of students doing projects in collaboration with industries/institutes	:	---
19	Awards / recognitions received at the national and international level by Faculty ∗ Best coordinator award was received by Ms. R. Thirugnanasoundari, from Rotary Club of Trichy. ∗ Prof. R. Natarajan received the following awards: o Best JCI president for the year 2013. o Recognition received during 2013 from JCI National President o 2015 Leading by example award		
	∗ Doctoral / post doctoral fellows	:	---
	∗ Students ★ Mr. A. Samsekar, I BBA received Mr. Ryla & Best JCI outstanding Awards. ★ Mr. L. Mohan Raj, Mr. Sebi Paul Raj and Mr. Vikram attended Independence Day Parade in Delhi during 2011.		
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. ∗ Workshop on "Share A Penny to earn many" conducted on 18.12.2013 ∗ Workshop on "Competency Skill" conducted on 08.07.2015. ∗ Workshop on "Smart Goals" conducted on 26.12.2015 ∗ Seminar on Challenges for "Indian Business under Globalization" on 12.08.2015. ∗ Workshop on "Questionnaire Construction" conducted on 29.03.2016		

21	Student profile course-wise:					
	Name of the Course (refer question no. 2) **UG**	**Applications received**	**Selected**		**Pass percentage**	
			M	**F**	**M**	**F**
	2011-12	261	103	11	88%	92%
	2012-13	250	104	21	88%	90%
	2013-14	200	90	20	87%	85%
	2014-15	163	87	16	90%	89%

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	UG	---	100%	NIL	NIL

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	NIL

24	Student Progression	
	Student Progression	**Percentage against enrolled**
	UG to PG	40%
	PG to M.Phil.	05%
	PG to Ph.D.	NA
	Ph.D. to Post-Doctoral	---
	Employed • Campus selection • Other than campus recruitment	---
	Entrepreneurs	---

25	Diversity of Staff	
	Percentage of faculty who are graduates	
	Of the same parent university	90%
	From other universities within the State	10%
	From other universities from other states	---

26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	Dr. P. Subramanian Dr. K. Rajesh Dr. M. Nirmal
27	Present details about infrastructural facilities		
	a) Library	:	Nil
	b) Internet facilities for staff and students	:	Net facility available for staff in the department
	c) Total number of class rooms	:	06
	d) Class rooms with ICT facility	:	One
	e) Students laboratories	:	Computer Lab for 150 systems
	f) Research laboratories	:	Nil
28	Number of students of the department getting financial assistance from College. * Two students receive Andalammal Scholarship. * All the SC/ST/OBC students get Post Metric Scholarship.		
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	---
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes. The feedback is used by the Department for improving the curriculum / teaching-learning-evaluation process.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? Yes, Their suggestions are considered favourably. Improvements are made in the curriculum / teaching-learning-evaluation process.		
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Yes. Skill component of the syllabus has been enriched based on their feedback.
31	List the distinguished alumni of the department (maximum 10) * Mr. Vignesh Ram, Director, * Mr. Arun Kumar, L&T, Chennai * Mr. Lakshmi Narayanan, L&T, Abudhabi. * Mr. Maniram, Accounts Officer, Singapore.		

<table>
<tr><td></td><td>

- Mr. Shashikumar, IT, Chennai
- Mr. M. Ramakrishnan, Asst. Manager, Kotak Mahendra, Chennai.
- Mr. S. Harikrishnamoorthy, Commercial and Accounts, Relience Trend, Trichy.
- Mr. P. Venkat, Officer in Personal Loan, Industrial Bank, Trichy.
- Mr. M. Gopinath, Construction Manager, L&T, Chennai.
- Mr. K. Rajarathinam, Credit Officer, HDFC, Chennai.

</td></tr>
<tr><td>32</td><td>Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts
The following one day workshop/ training programmes were conducted by the Department.
<table>
<tr><th>S. No.</th><th>Date</th><th>Name</th><th>Topic</th></tr>
<tr><td>1.</td><td>08.07.2015</td><td>Mr. A. Vivekanandhan
Mr. M. Shagul Hameed &
Ms. S. Jaya shree</td><td>Competency Skills</td></tr>
<tr><td>2.</td><td>17.07.2015</td><td>Dr. I. Francis Gnanasekar</td><td>Perceive, Visualize, Design, Develop Our Digital India</td></tr>
<tr><td>3.</td><td>12.08.2015</td><td>Dr. S. Nakkiran</td><td>Challenges for Indian Business under Globalization</td></tr>
<tr><td>4.</td><td>26.08.2015</td><td>Dr. CMA. T.K.Sridhar</td><td>Intelligent Investor</td></tr>
</table>
</td></tr>
<tr><td>33</td><td>List the teaching methods adopted by the faculty for different programmes.

- Power Point Presentation,
- Group Discussion
- Seminars taken by Students
- Question Hour Session

</td></tr>
<tr><td>34</td><td>How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Timely Completion of Curriculum
- Extra Classes and Counseling for needy students are given
- Continuous Internal Assessment
- End Semester Examinations

</td></tr>
<tr><td>35</td><td>Highlight the participation of students and faculty in extension activities.

- Dr. B. Sekar
- Dr. Natarajan
- Ms. R. Thirugnanasoundari are coordinators for NSS, JCI and Rotary Clubs respectively.

</td></tr>
</table>

36	Give details of "beyond syllabus scholarly activities" of the department. Seminars, Workshops and Association meetings. The following special lecture programmes were conducted by Business Administration association during the last four years. ∗ Dr. S. Renugadevi, Prof. & Head, Department of International Business, SNR && sons College, Coimbatore delivered a lecture on Business Ethics on 30.06.2011. ∗ Mr. M. Arul Kumaran, Portfolio Consultant, Born to Win Associates, Chennai delivered a lecture on Learn and Earn Secrets of Shares on 23.09.2011. ∗ Mr. K. Arivazhagan, Finance Manager FBJ Enterprises, Qatar delivered a lecture on Abroad Abroad for a Job on 09.02.2012. ∗ Dr. R. Gowri Shankar, Asst. Prof. Dept. of English, Presidency College, Chennai delivered a lecture on Empower your English Effectively on 24.08.2012. ∗ Prof. R. Saraswathi, Vice President, SSB delivered a lecture on Employment opportunities available to BBA and MBA graduates on 14.03.2014. ∗ Mr. K. Sudhakar, Plant Head, Rane TRW Steering Systems Ltd, Trichy delivered a lecture on Empowerment of Employability on 08.10.2014. ∗ Mr. Kalyana Sundharam, Chief Executive of Sri Energy Private Ltd delivered a lecture on Smart Goals on 27.02.2015.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	No
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strength** Effective Teaching, Skillful Teachers, Excellent syllabus, Identification of slow learners to give extra care. **Weakness** Difficulty in catering to the diverse needs of students with different intelligence levels, Problems experienced by students in adapting to English as medium of instruction, **Opportunity** To serve the cause of rural students and help them realize their potential by employment or self employment **Challenges** Difficulty in improving the language skill of the students, Low level of motivation of students.		

39	Future plans of the department. 1. To bring out the entrepreneurial skills of the students. 2. To develop and improve employability skills. 3. To train the students take part in Competitive Examination.

Evaluative Report of the Department of

Commerce

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EVALUATIVE REPORT OF THE DEPARTMENT OF COMMERCE

1	Name of the Department & its Year of Establishment	:	Commerce & 1952
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.Com., B.Com (CA)., M.Com., M.Com (FM) M.Phil. Ph.D.
3	Interdisciplinary courses and departments involved * Our students have opted for Non – Major Elective courses offered in other departments such as English, Tamil, Mathematics and History. * Courses on Computer Applications, Basic computer operations are handled by staff from the Dept of Computer Science. Value Education and Environmental Education are handled by staff from the Department of Philosophy.		
4	Annual / semester/choice based credit system	:	Semester with CBCS
5	Participation of the department in the courses offered by other departments The Department conducts classes for Principles of Accountancy, Basics of Stock Market, Principles of Management and Mutual Funds to students of Economics, English, and Tamil		
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

	Sanctioned	**Filled**
Professors	---	---
Associate Professors	11	11
Assistant Professors	15	14

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr.R.Narayanasamy	M.Com., M.Phil., M.B.A, Ph.D.,	Associate Professor & Head	Accounting, Marketing ,HR	34 years	06
2.	Dr.R.Srinivasan	M.Com., M.Phil. Ph.D., PGDIM, M.B.A.PGDBM	Associate Professor	Finance, Marketing	35 Years	----
3.	Dr. S.Ramanath	M.Com., M.Phil. Ph.D.,	Associate Professor	Investment Management	35 years	05
4.	Mr.P.Chandrasekar	M.Com., M.Phil.	Associate Professor	Financial Management and Statistics	33 Years	---
5.	Dr.R.Hariharan	M.Com., M.B.A., M.Ed., M.Phil., Ph.D.	Associate Professor	Financial Management	31 Years	06
6.	Dr.U.Sathyamurthy	M.Com., M.B.A B.G.L., B.Ed., M.Phil. Ph.D.	Associate Professor	Human Resource Management	29 Years	---
7.	Dr. S.Sivakumar	M.Com., M.Phil. Ph.D.,	Associate Professor	Human Resource management	30 Years	---
8.	Dr. S.V.Srinivasa vallabhan	M.Com., MBA., B.Ed., B.L., M.Phil., Ph.D., PGDCA.,	Associate Professor	E-Commerce, Computer Application, Taxation, Accounting, Marketing, Management	27 Years	05

9.	Dr. R.Sundhararaman	M.com., B.Ed., Ph.D.	Associate Professor	Financial Management	30 Years	11
10.	Mr.S.Gnanasekaran	M.Com., M.Phil., M.Ed., PGDBA	Associate Professor	Human Resource Management	19 years	---
11.	Dr.K.Kumar	M.Com, M.Phil., Ph.D.	Associate Professor	Human Resource Management	19 years	05
12.	Dr.M.Sharmila	M.Com., M.Phil. Ph.D.,	Assistant professor	Cost Accounts	10 Years	04
13.	Dr.M.Sowriyar Duraisamy	M.com.,M.Phil. Ph.D	Assistant Professor	Human Resource management & Accounting	2 Years	---
14.	Mr.R.Jayaraman	M.Com., M.Phil.	Assistant Professor	Accounts	25 years	---
15.	Mr.G.Umapathy	M.Com., MBA., M.Phil.	Assistant Professor	Accounts	14 Years	---
16.	Mr.P.Ravichandran	M.Com., M.Phil., NET	Assistant Professor	Q.T and Company Law	20 Years	---
17.	Mr.M.Rajavelayutham	M.Com., M.Phil	Assistant Professor	Finance and Banking	13 Years	---
18.	Mr.P.Samimuthusait	M.Com., M.Phil	Assistant Professor	Banking and Marketing	7 Years	---
19.	Ms.K.Kavitha	M.Com., M.Phil	Assistant Professor	Management	5 Years	---
20.	Ms.T.Nandhini	M.Com., M.Phil	Assistant Professor	Taxation	18 Years	---
21.	Ms.A. Zeenath Amman	M.Com., M.Phil., PGDCA., MBA	Assistant Professor	Business Management	4 Years	---
22.	Dr.V.Rathinamani	MBA., M.Phil., PhD	Assistant Professor	Finance and HRM	9 Months	---
23.	Mr.R.Govindarajan	M.Com. M.Phil, MBA	Assistant Professor	HRM	13 years	---
24.	Mr.K.Sinuvasan	M.Com	Assistant Professor	Marketing	9 months	---
25.	Mrs.Latha Maheswari	M.Com., M.Phil, MBA	Assistant Professor	HRM	16 years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	B.Com 10 % M.Com 10 %
9	Programme-wise Student Teacher Ratio	:	B.Com - 30:1 M.Com - 5:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	NIL
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	NIL
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	NIL
13	Research facility / Centre with • State recognition • National recognition • International recognition	:	The Department is renowned for its prodigious research output of high quality.
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	33
	Monographs	:	---
	Chapter(s) in Books	:	---
	Editing Books	:	---
	Books with ISBN numbers with details of publishers	:	03
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	25
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	---
	h-index	:	---
15	Details of patents and Income generated	:	NIL

16	Areas of consultancy and Income generated	:	Staff members offer consultation on investments and Insurance to the general public.
17	Faculty recharging strategies ∗ Attending refresher courses ∗ Organizing workshops and seminars by the department ∗ Publication of Research Articles ∗ Presentation of Papers ∗ Attend National & International seminars / Conference		
18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	P.G - 95% There is no project work for U.G programme.
	• Percentage of students doing projects in collaboration with industries/institutes	:	P.G - 5%
19	Awards / recognitions received at the national and international level by ∗ Faculty ❖ Dr. R. Sundararaman received the BEST NCC Associate NCC Officer (ANO) Award and The Best NCC senior division Air wing ANO award from Col S. Vedanayagam, Commander, Trichy Group on 14.02.2012 ❖ The Best NCC Associate NCC officer Award was received by Dr. R. Sundhararaman from Mr.P.C. Thangaraj, M.A., B.L., Additional Superintendent of Police (Retd) Madurai in an award Function arranged by the Daily Nagar Murasu on 23.12.2012 ❖ Flt Lt. R. Sundhararaman was promoted to the rank of Squadron Leader during August 2015. ❖ The Book titled Financial Management, written by Dr. R. Srinivasan has been prescribed as Text Book in many Autonomous Colleges and Universities. ❖ Books on Computer Applications in Business and Information Technology authored by Dr.Srinivasa Vallabhan have been prescribed as texts in many autonomous colleges and universities.		
	∗ Doctoral/ Post Doctoral fellows	:	---
	• Students	:	---

20 Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

a)National

- One day work shop on Banking Technology was held on 28.12.2012. Chief guest : Sri J. Natarajan Chief HR Manager, Karur Vysya Bank Ltd. Sri.G. Mahesh, Vice President Grindlays Bank was another resource person.
- Seminar on "Challenges and Opportunities in Banking," in association with Karur Vysya Bank, Karur 21.01.2014 Sri. K .Srinivasan, General Manager (Inspection & Audit), KVB was the Chief guest. RM. Chidambaram. Former Professor of Bank Management, Alagappa University was another resource person.
- One Day Seminar on "Entrepreneurship - The Pathway to Progress" held 17.09.2013 was addressed by Smt. Rani Muralidharan Chair person of CII, and Sri. Issac Padmasingh, Founder Chairman of Aachi Masala.
- Career Development Programme was conducted by Sri. S A.N. Buhari Former H.R. Manager of BHEL.

21 Student profile course-wise:

Name of the Course (refer question no. 2)		Applications received	Selected		Pass percentage	
			M	F	M	F
B.Com	2010-13	170	108	48	71	45
	2011-14	180	80	68	78	92
	2012-15	270	147	97	84	80
M.Com	2010-12	65	40	11	86	78
	2011-13	60	39	09	90	88
	2012-14	62	40	10	90	90

22 Diversity of Students

Name of the Course (refer question no.2)	% of students from the College	% of students from the state	% of students from other States	% of students from other countries
B.Com	----	100	NIL	NIL
M.Com	80	100	NIL	NIL

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	Data not available

24	Student Progression		
	UG to PG		50%
	PG to M.Phil.		5 – 10 %
	PG to Ph.D.		2%
	Ph.D. to Post-Doctoral		1%
	Employed • Campus selection • Other than campus recruitment		 20% 50%
	Entrepreneurs		
25	Diversity of Staff		
	Percentage of faculty who are graduates of the same parent university	:	15%
	From other universities within the State	:	85%
	From other universities from other states	:	--
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	Ph.D. - 03 Dr. M. Sowriyar Duraisamy Dr. V. Rathnamani Dr. P. Ravichandran
27	Present details about infrastructural facilities		
	a) Library	:	There is a centralized library holding a huge collection of both books and journals in Commerce
	b) Internet facilities for staff and students Computers and printers have been provided to the Staff with Internet connectivity. Students of the Department use the common computer facility established in the College. Campus is Wi-Fi enabled.		
	c) Total number of class rooms	:	16 classrooms
	d) Class rooms with ICT facility	:	LCD projectors are available in the Department. Staff members use power point presentation in handling classes.
	e) Students laboratories	:	Common computer lab is made use of for practicals.
	f) Research laboratories	:	---

28	Number of students of the department getting financial assistance from College.	:	All the SC/ST/OBC students get scholarship from the Govt. of Tamil Nadu.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. * As computer applications is an integral part of business and industry requirements, a programme with the nomenclature of B.Com. - CA was introduced. The curriculum was developed in consultation with business and industry representatives. The syllabus includes basics of computers, office automation and accounting software with programming knowledge. * In order to facilitate focused learning and specialization in the function of finance ,a programme named M.Com. Financial management was introduced.		
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes, feedback obtained through discussion in Staff Meetings. Feedback is used to improve curriculum.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes, Feedback gathered through questionnaire. Suitable changes are made to improve the curriculum and teaching learning and evaluation process.
	c. Alumni and employers on the programmes and what is the response of the department to the same? Based on the input given by the Alumni and the companies visiting College for Campus Recruitment, necessary courses are introduced. A course on personality development was introduced in Final B.Com. It was later shifted to I year on the suggestion of alumni. Distinguished alumni have been nominated to the Board of Studies in Commerce. Their inputs and suggestions have been duly considered and necessary changes are made in the curriculum.		
31	List the distinguished alumni of the department (maximum 10) * Ms.Preethi Hariharan, HCL Info System * Ms.N.Shivganga, Atomic Research Center, Kalpakam. * Mr.N.Rajaram, Naval officer * Mr.Parthiban, L&T * Mr.R.A.Thiyagarajan, L&T * Mr.K.Vivekanadan, Proprietor, Sri Ganesh Plywoods * Mr.Geminiganesh, Deputy Secretary, Ministry of Industry, Govt. of Tamil Nadu. * Mr.Praveen, Officer, City Union Bank		

	∗ Mr.Arunachalam, Chola Mandalam Finance, Bangalore. ∗ Mr.Jagadeeswara, TCS, Chennai
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. Many dignitaries are invited to deliver lectures as a part of Academic Association Activities. The names of a few dignitaries are listed below. ∗ Sri. V. Srinivasan, General Manager (Inspection and Audit) KVB. ∗ Dr. R.M. Chidambaram Former Professor& Head Dept of Banking Management, Alagappa University, Karaikudi. ∗ Sri. M.R. Subramanian, Former Banker(Chairman), Urumu Dhanalakshmi College , Kattur, Trichy ∗ Sri. S. Raghunathan, DGM, Divisional Office, KVB, Trichy. ∗ Dr. Rose Kavitha, Dean, Jothi Nivas College, Bangalore ∗ Sri. V.R. Muthu, Chirman VVV. Edible Oil Ltd., Virudhunagar, Manufactures of Idhayam Gingley oil ∗ Prof.(Er.) S.A.N. Bhuhari, Former Deputy General Manager BHEL, Trichy ∗ Dr. Arul Chella Kumar, Prof. of Economics, BARD, Trichy ∗ Tmt.Rani Muralidharan, Executive Director, GK Sons Engg. Enterprises Ltd., Trichy ∗ Chairman CII Trichy Zone ∗ Mr. A.D. Padmasingh Issac, Founder and Chairman. Aachi Group of Companies,Chennai ∗ Tmt. Durga Manikandan, Propreitrix, Maalyaa Designer Jewellers,(Kalyani Covering) Trichy The following special lecture programmes were conducted by Commerce association during the last four years. ∗ Dr. R. Khader Mohideen, Principal, Jamal Mohamed College, Trichy delivered a lecture on Personality Development on 11.08.2011. ∗ Prof. Vanmika Venkatachalam, HOD of Commerce, AVC College, Mayiladurai delivered a lecture on Trade in Sangam Literature on 04.10.2011. ∗ Sri. S. Rengarajan, Senior Branch Manager, LIC, Srirangam delivered a lecture on Usefulness of LIC for individuals and nation on 08.09.2011. ∗ Sri. T.S. Raghavan, Ex-Chairman, Indian Bank delivered a lecture on Management thoughts in Indian Literature on 10.10.2011. ∗ Sri. R. Vijayalan, Director, NR IAS Academy, Trichy delivered a lecture on Salient Tips for Success in Competitive Exams on 25.01.2012.

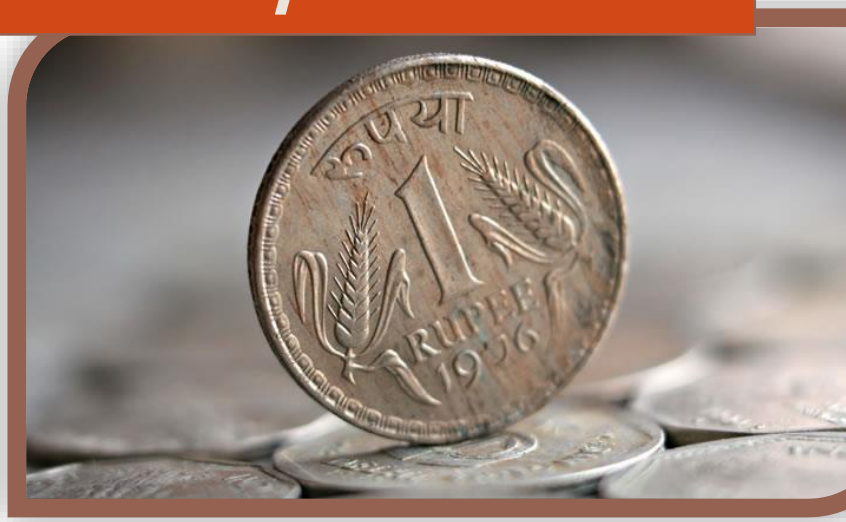
	∗ Dr. A.M. Mohammed Sindhasha, Additional Vice-Principal and HOD in-charge of Commerce, Jamal Mohamed College, Trichy delivered a lecture on Employability of Commerce Graduates on 08.03.2012. ∗ Sri. S. Srivatsan, Chatered Accountant, Trichy delivered a lecture on Budget-2012 on 19.03.2012. ∗ Shri. K.K. Srinivasan, Senior Chartered Accountant delivered a lecture on Highlights of the Central Government Budget 2012-2013 on 21.03.2012. ∗ Prof. S. Pushpavanam, Secretary, Tamil Nadu Consumer Council, Trichy delivered a lecture on Tamil Nadu Budget-2012-A Vision on 27.03.2012. ∗ Dr. A.M. Mohamed Sindhasha, Principal, Jamal Mohamed College, Trichy delivered a lecture on Specialty of Commerce Graduates on 18.07.2013. ∗ Dr. M. Selvam, Asso. Prof. and Head, Dept. of Commerce Bharathidasan University delivered a lecture on Employability skills for Commerce graduates on 23.08.2012. ∗ Shri. Kannaiyan Dakshnamurthy, Programme Head, All India Radio, Trichy delivered a lecture on How the Radio helps Commerce and Indian Economy on 25.09.2012. ∗ Sri. Idhayam V.R. Muthu, Chairman of V.V.V. Edible Oils Ltd. Virudhunagar delivered a lecture on Business Mantras on 05.02.2014. ∗ Prof. (Er.) S.A.W. Buhari, Former Deputy General Manager, BHEL delivered a lecture on Corporate Expectations on 18.02.2014. ∗ Dr. Arul Chellakumar, Prof. & Head, Dept. of Economics, Bharathidasan University, Trichy delivered a lecture on Gate Way to Success on 13.02.2014. ∗ Mr. J. Rajesh, Development officer, LIC of India and National Trainer from JCI delivered a lecture on Empowerment of Youth on 19.08.2014. ∗ Dr. Joseph Anbarasu, Bursar and Asso. Prof. and Head, Dept. of Commerce, Bishop Heber College, Trichy delivered a lecture on Work or Professional experience on 19.09.2014. ∗ Dr. P. Subburethina Bharathi, Prof. Dept. of Management Studies, MAM College of Engineering and Technology delivered a lecture on Entrepreneurship and Employability Skills on 11.12.2014. ∗ Dr. R. Thiyagarajan, Asst. Prof. Hallmark Business School delivered a lecture on Soaring High on 18.02.2015. ∗ Prof. S.A.W. Bukari, Former Deputy General Manager, HRM, BHEL delivered a lecture on Employability Skills. ∗ Dr. G. John, Asso. Prof. of Commerce, St. Joseph's College, Trichy delivered a lecture on Tips for personal Effectiveness on 19.03.2015. ∗ Prof. G. Balakrishnan, Former Vice-Principal, St. Joseph's College, (Autonomous), Tiruchirapalli delivered a special lecture on the You in You on 13.08.2015

	∗ Dr. E. Ramganesh, Professor and Head, Department of Educational Technology and Director, Curriculum Development cell delivered a special lecture on Higher Education system on 31.07.2015 ∗ Dr. B. Balamurugan, Assistant Professor, PG and Research Department of Economics, Govt. Arts College, Thiruvannamalai on Sweeping through Interviews on 18.09.2015.		
33	List the teaching methods adopted by the faculty for different programmes. Lecture method , Black board work for Accounting classes ∗ Computer Assisted Teaching, ICT enabled teaching learning process. ∗ PowerPoint Presentation is used on regular basis covering important topics. ∗ Standardized presentation on security market, financial literacy etc. have been prepared for the benefit of the students. ∗ Conduct of quiz, seminar classes, mock interview of final year students. group discussion for PG Students		
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? ∗ Continuous monitoring of the completion of the syllabus ∗ Periodic meetings of faculty to plan and review work ∗ Adherence to academic calendar ∗ Conducting class seminars and Internal Class tests ∗ Continuous Internal Assessment test evaluation		
35	Highlight the participation of students and faculty in extension activities. ∗ Dr. R. Sundhararaman, Asso. Prof. Dept. of Commerce is the ANO of NCC Airwing unit of the College. He is also the Controller of the Examinations of the College. ∗ Many students participate in NCC, NSS, Quiz club, etc. ∗ Dr. K. Kumar, was the Deputy Warden of the boys hostel for four years. ∗ Dr. R. Srinivasan, Asso. Prof. is the Secretary of Academic Council of the College. ∗ Prof. P. Chandrasekar, Asso. Prof. is the Dean of Arts in the College.		
36	Give details of "beyond syllabus scholarly activities" of the department.	:	Practical training such as filing Income Tax- return, Online reservation, Online - Payment activities.
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	---

38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department: **Strength** • Dedicated team of faculty with rich and waste experience in diverse fields of commerce, • Focus on research activities with particular emphasis on Ph.D. **Weakness** • Lack of focus on employability and communication skills **Opportunities** • For importing skill based/ employment oriented educations. **Challenges** • Difficulty in attracting bright students • Overcoming the mental blocks rural students
39	Future plans of the department: * To inculcate savings and investment habits, a Students investors Forum is to be formed and they will be given training in Stock Market and Mutual Fund Investment. * Coaching classes will be organized to prepare students for CA, ICWA,ACS Courses. * Bharathidasan University, Tiruchirapalli has already granted Affiliation for MBA programme. The programme will commence shortly.

Evaluative Report of the Department of

Economics



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EVALUATIVE REPORT OF THEDEPARTMENT OF ECONOMICS

1	Name of the Department & its Year of Establishment	:	PG & Research Department of Economics &1919
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.A. Economics M.A. Economics M.Phil. Economics Ph.D. Economics
3	Interdisciplinary courses and departments involved The Department offers Advertisement Management, Agricultural Economics as Non Major Electives. These courses are taken up by students from other departments such as Commerce, English and History.		
4	Annual / semester/choice based credit system	:	Semester with Choice Based Credit System
5	Participation of the department in the courses offered by other departments Students of Economics Dept. take up courses conducted by other Departments: 1. Department of Computer Science 2. Commerce 3. Philosophy 4. English 5. Tamil		
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	06	06
	Assistant Professors	04	02

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided in the last 4 years
1.	Dr. D. Srinivasan	M.A., M.Phil. PGDE, PGDCA & Ph.D.	Associate Professor & Head	Macro and Monetary Economics	32	---
2.	Dr .R. Subramanian	M.A., M.Phil., Ph.D.	Associate Professor	Agricultural Economics, Environomics, Capital Market, Indian Economy	25	---
3.	Mr. K. Elango	M.A., M.Phil.	Associate Professor	Economic Statistics, Marketing	25	---
4.	Dr. T. Sridhar	M.A., M.Phil., B.Ed., Ph.D., PGDCA	Associate Professor	Labor Economics, Agricultural Economics	18	01
5.	Dr. S. Thirumaran	M.A., M.Phil., B.Ed., Ph.D.	Associate Professor	Entrepreneurial Development	15	---

6.	Dr. V. R. Mathiazhagan	M.A., M.Phil., DPM, DLL, MBA, Ph.D.	Associate Professor	Agricultural Economics, International Trade	15	---
7.	Dr. N. Renganayaki	M.A., B.Ed., SLET M.Phil., MBA., Ph.D.,	Assistant Professor	Human Resource Management.	8	---
8.	Dr. J. Indirani (Management Faculty)	M.A., M.Phil., Ph.D.	Assistant Professor	Rural Economics & Women's Studies	3 Months	---
9	Dr. T. Sudakar (Management Faculty – Left the Job)	M.A., M.Phil., PGDCA, MBA, Ph.D.	Assistant Professor	Agricultural Economics, Micro Economics	8	---
10	Mrs. V. Kaleeswari (Management Faculty – Left the Job)	M.A., M.Phil., B.Ed., MBA, NET (Economics) and (Management)	Assistant Professor	Agricultural Economics	2	---

8	Percentage of classes taken by temporary faculty – Programme-wise information			
	Programme	Theory (% p/w)	Practical (% p/w)	Total (% p/w)
	I BA	Sem. I - 22 Sem. II – 50	--- 11	22 21
	II BA	Sem. III –23 Sem. IV -23	--- ---	23 23
	III BA	Sem. V - 23 Sem. VI - 22	---	23 22
	I MA	Sem. I - 10 Sem. II - 13	---	10 13
	II MA	Sem. III - 10 Sem. IV- 13	---	10 13
	M.Phil.	Sem. I Sem. II - Dissertation	**	**

9	Programme-wise Student Teacher Ratio	:	UG:14: 1 PG: 2:1 M.Phil.- 3: 1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	None.
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	None.

12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received				
	Dr.S.Thirumaran	UGC (Minor)	A Study on Rural Development through Industrial Entrepreneurship in Tiruchirappalli District.	2012-2013	Rs. 60,000/-
	Dr.T.Sudakar	UGC (Minor)	A Study on the Cattle Farming in Tiruchirapalli District.	2014-2016	Rs. 1,70,000/-

13	Research facility / Centre with • State recognition • National recognition • International recognition	:	State & National Recognition for Labour Economics and Money and Banking, Agricultural Economics

14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	31
	Monographs	:	---
	Chapter(s) in Books	:	02
	Editing Books	:	01
	Books with ISBN numbers with details of publishers	:	23
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	15%
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	0.8215
	h-index	:	---
15	Details of patents and Income generated	:	-Nil-
16	Areas of consultancy and Income generated	:	None.
17	Faculty recharging strategies ∗ Attending National and International Workshops/Conferences/Symposiums/Seminars. ∗ Organizing Association meetings by inviting experts on the chosen field.		
18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental		

Year	PG Projects	M.Phil. Dissertation
2014 -15	100 %	100 % (FT) 80 % (PT)
2013-14	100 %	100 %
2012-13	90%	90%
2011-12	100%	100 %

	• Percentage of students doing projects in collaboration with industries/institutes	:	---
19	Awards / recognitions received at the national and international level by	:	---
	• Faculty Best paper award - Dr. T. Sridhar, Associate Professor. Best Teacher Award - Dr. N. Renganayaki, Assistant Professor – Year: Nov 01, 2015.		
	• Doctoral / `doctoral fellows	:	Dr. N. Renganayaki - 01
	• Students 1. M. Senthil Andavar (ECUA 13008) – Year 2014-15 2. V. Karthika (ECUA 15010) – Year 2015-16.		
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.	:	A State level Seminar on "Money and Banking" was organised on 30.9.2011

21 Student profile course-wise:

	Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
			M	F	M	F
	UG 2015-16	38	28	05	28	05
	2014 -15	43	28	09	28	09
	2013-14	40	24	11	24	11
	2012-13	16	10	02	10	02
	2011-12	23	10	06	10	06
	PG 2015-16	10	02	01	02	**1**
	2014 -15	16	10	07	10	07
	2013-14	18	11	06	11	06
	2012-13	20	11	08	11	08
	2011-12	18	10	07	10	07

22	Diversity of Students				
	Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
	B.A (2011-12)	---	100	---	---
	B.A (2012-13)	---	100	---	---
	B.A (2013-14)	---	100	---	---
	B.A (2014-15)	---	100	---	---
	B.A (2015-16)	---	100	---	---
	M.A. (2011-2012)	80	100	---	---
	M.A. (2012-2013)	60	100	---	---
	M.A. (2013-2014)	100	100	---	---
	M.A (2014-2015)	100	100	---	---
	M.A. (2015-16)	100	100	---	---
	M.Phil. (2011-2012)	100	100	---	---
	M.Phil. (2012-2013)	100	100	---	---
	M.Phil. (2013 – 14)	100	100	---	---
	M.Phil. (2014 – 15)	100	100	---	---
	M.Phil. (2015 -16)	100	100	---	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	02.

24	Student Progression	
	Student Progression	**Percentage against enrolled**
	UG to PG	2011- 12 - 80% 2012- 13 - 28% 2013 -14 - 52% 2014- 15 - 71% 2015- 16 - 25%
	PG to M.Phil.	2012- 13 - 48% 2013 -14 - 100% 2014- 15 - 154% 2015- 16 - 18%

	PG to Ph.D.		NA.
	Ph.D. to Post-Doctoral		Does Not Arise.
	Employed • Campus selection • Other than campus recruitment		 15 ---
	Entrepreneurs		NA.
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		57%
	From other universities within the State		42%
	From other universities from other states		None
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	Ph.D. - One Dr. N. Renganayaki
27	Present details about infrastructural facilities		
	a) Library	:	More than 4,000 books in general library
	b) Internet facilities for staff and students	:	Internet connectivity Modems –1
	c) Total number of class rooms	:	06
	d) Class rooms with ICT facility	:	02
	e) Students laboratories	:	---
	f) Research laboratories	:	---
28	Number of students of the department getting financial assistance from College.	:	All SC/ST/OBC candidates receive Govt. Scholarships.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	---
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Yes, Continuous feedback obtained in departmental meeting is used to improve quality of assignments, teaching methods, evaluation process and syllabus

	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Yes. Their suggestions are incorporated in enhancing the content and quality of the curriculum / teaching-learning-evaluation process.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Inputs from alumni are used to improve the syllabus.
31	List the distinguished alumni of the department (maximum 10) 1. Dr. S. Sathiagopal, I.A.S., 2. Thiru. Paulraj I.A.S.(Rtd) 3. V.Natarajan, Director (Rtd). Doordharshan. 4. Mrs.Vasundaradevi, Joint-Director of School Education. 5. Dr.Thangamuthu, Vice-Chancellor (Rtd), Bharathidasan University, 6. Thiru. Elango, Registrar of Defence. 7. Dr.S.Sundararajan, Analyst, London Stock Exchange, London. 8. Mr. Ramanan, Economist (Rtd), RBI. 9. Dr.S.Narasimhan, Principal (Rtd), D.G. Vaishnava College, Chennai. 10. Dr.R.Ramasubbu, Editor-in-Chief, Dinamalar Tamil daily.		
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts * SLET/ NET Coaching Class for students * One day orientation course for M.Phil. Scholars * Internet and E-commerce for PG & M.Phil. Research scholars in economics conducted by NIIT from Jan 08.10.2015 to 10.10.2015		
33	List the teaching methods adopted by the faculty for different programmes. * Delivering lectures with the help of Information Communication Technology * Submission of Students Assignments * Seminars * Group Discussion		
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * Timely Completion of Curriculum * Assignments are given.		

	∗ Seminars for PG students are conducted. ∗ Extra Classes are taken. ∗ Continuous Internal Assessment. ∗ Tutors-in-charge mind and mend students. ∗ Counseling for the needy. ∗ End Semester Examinations		
35	Highlight the participation of students and faculty in extension activities. ∗ V. Karthika, I B.A. Economics received Library Best User Award ∗ Athletics: A. Kadhar Hussian, A. Guru Jawahar of II B.A. Economics is National Level Players and Bharathidasan University Champions. ∗ S. Sujin Nayagan, P. Sujin, T. Anish of III B.A. Economics received Chief Minister's Winners Trophy, Second Division Football League Winners, Inter College Runners Bharathidasan University Players.		
36	Give details of "beyond syllabus scholarly activities" of the department. ∗ Eminent Academicians and Economists interact with students to educate and motivate them. ∗ Encouragement to students to participate in various competitions conducted by other colleges, seminars/symposiums/conferences/workshops to get exposure to new developments and research methodologies. ∗ Guidance in the preparation of power point presentations for Seminars. ∗ Supporting research scholars by helping them in preparations/statistical analysis/literature collection, thus enhancing their research skills.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	Nil
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strengths** Highly Qualified Faculty, Guest lectures by eminent economists, placement assistance, research article presentation and publications. **Weakness** Poor Student Enrollment, Unimpressive Placement. **Opportunity** Opportunity to enhance the utility of the course by changing the programme content in tune with the market requirements, Opportunity to enhance the employability skills by appropriate training Imparting training to appear for Competitive examinations.		

	Challenges Attracting students with high scores and right aptitude for Economics. Overcoming the inhibitions associated with the study of Economics.
39	Future plans of the department. * To secure research grant from funding agencies * Exploration of opportunities for collaborative research with leading institutions/organizations * To introduce Diploma programme on Retail Marketing and Banking and Insurance.

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Evaluative Report of the Department of

English

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EVALUATIVE REPORT OF THE DEPARTMENT OF ENGLISH

1	Name of the Department & its Year of Establishment	:	English, 1963
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.A. English M.A. English M.Phil. English Ph.D. English Certificate programme on Journalism and Editing
3	Interdisciplinary courses and departments involved The Department offers Presentation Skills and Functional Skills as Non-major electives to Students of Commerce and Economics.		
4	Annual / semester/choice based credit system	:	Semester With Choice Based Credit System
5	Participation of the department in the courses offered by other departments Sinthanaiyiyal, Sirappu Tamil - Tamil Internet and its Application - Computer Science Basic Accountancy - Commerce Quantitative Aptitude-II - Mathematics Gandhian Thought - Philosophy Philosophy of Yoga- Philosophy. Environmental Studies, Gender Studies, Value Education		
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	07	07
	Assistant Professors	23	20

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. R. Elavarasu	M.A., M.Ed., M.Phil., Ph.D.	Head & Associate Professor	Linguistics Rhetorics	26 Years	---
2.	Dr. V. Sekar	M.A., M.Phil, B.Ed., PhD	Associate Professor	English Language Teaching, American Literature	29 Years	Guiding 8 students
3.	Dr. D.E. Benet	M.A., M.Phil, B.Ed., PhD	Associate Professor	Literary Criticism, American Literature	25 Years	Guiding 8 students
4.	Dr. T.S. Ramesh	M.A., M.Phil, Ph.D.	Associate Professor	Indian Writing in English	26 Years	6 – Bard 10 – Dravidian
5.	Dr. K. Srinivasan	M.A., M.Phil, B.Ed. PhD	Associate Professor	Canadian Literature, British Literature	29 Years	Guiding 8 students
6.	Mr. M.S. Balamurugan	M.A., M.Phil.	Associate Professor	Diasporic Literature, Journalism	15 Years	---
7.	Dr. R. Soundararajan	M.A., M.Phil, B.Ed., PhD	Associate Professor	Jewish Canadian Fiction	28 Years	Guiding 8 students

8.	Mr.V.Sri Ramachandran	M.A., M.Phil.	Assistant Professor & Asst. Controller of Examination	Journalism, Soft Skills, Indian Literature in Translation	16 Years	---
9.	Dr.V.Srividya	M.A., M.Phil., Ph.D.	Assistant Professor	Indian Writing in English	14 Years	Guiding 8 students-two have submitted thesis and awaiting viva
10.	Dr.T.G.Akila	M.A., M.Phil., Ph.D.,	Assistant Professor	Indian Writing in English	8 Years	---
11.	Mr.S.Vinoth Kumar	M.A., M.Phil., NET	Assistant Professor	British Literature	8 Years	---
12.	Prof. M. Venkateshwari	M.A.,M. Phil.,	Assistant Professor	British Literature	07 Years	---
13.	Prof. M. Asha	M.A., M.Phil.	Assistant Professor	Women's Studies	05 Years	---
14.	Ms. K. Sumathy	M.A., M.Phil.	Assistant Professor	Indian Writing in English	6 Years	---
15.	Ms. Gowri Priya Aanand	M.A., M.Phil.	Assistant Professor	Eco Criticism, Native Writings in English	4 Years	---
16.	Ms. Ethina	M.A., M.Phil.	Assistant Professor	Translation	4 Years	---
17.	Mr. M. Arul Mozhi Varman	M.A., M.Phil., B.Ed.,	Assistant Professor	Indian Writing in English	6 Years	---

18.	Mr.A.Charles	M.A., M.Phil., B.Ed.,	Assistant Professor	British Literature	4 Years	---
19.	Mr.K.Stalin	M.A., M.Phil., B.Ed.,	Assistant Professor	Translation & Journalism	9 Years	---
20.	Ms.R.Vanitha	M.A., M.Phil.,	Assistant Professor	Indian Writing in English	10 Years	---
21.	Mr.A.Kumar	M.A., M.Phil., B.Ed.,	Assistant Professor	Indian Writing in English	2 Years	---
22.	Mr.N.Sathish Kumar	M.A., DJE.,	Assistant Professor	Indian Writing in English	2 Years	---
23.	Mr.S.Stanley Gerald	M.A., M.Phil.,	Assistant Professor	Indian Writing in English	9 Years	---
24.	Ms.P.Amalorpava Mary	M.A., M.Phil.,	Assistant Professor	Indian Writing in English	10 Years	---
25.	Ms.K.Kalaiselvi	M.A., M.Phil., B.Ed.,	Assistant Professor	Indian Writing in English	3 Years	---
26.	Ms.A.Malathy	B.Com. M.A., M.Phil.,	Assistant Professor	Indian Writing in English	3 Years	---
27.	Prof. S. Asha Mary	M.A.,	Assistant Professor	Indian Writing in English	4 Years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	B.A. - 15% M.A. - 10%
9	Programme-wise Student Teacher Ratio		
	Course		Student – Teacher Ratio
	B.A		10:1
	M.A.		4:1
	M.Phil.		5:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	Nil
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	NIL
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	NIL
13	Research facility / Centre with • State recognition ❖ Indian Association for Canadian Studies ❖ State Recognition for studies of Comparative Literature ❖ Indian English Language Teachers Association. • National recognition • International recognition		
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	26
	Monographs	:	---
	Chapter(s) in Books	:	---
	Editing Books	:	03
	Books with ISBN numbers with details of publishers	:	11

	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	85
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	---
	h-index	:	---
15	Details of patents and Income generated	:	NIL
16	Areas of consultancy and Income generated	:	NIL
17	Faculty recharging strategies * Attend Orientation/Refresher programme * Attend Seminar/Conference/Workshop * Act as resource person in the Seminar/Conference organized in other institutions. * Inviting eminent scholars for the association meeting. * Organize seminar/workshop * Coaching classes for NET examinations.		
18	Student projects	:	NIL
	Percentage of students who have done in-house projects including inter-departmental	:	100%
	Percentage of students doing projects in collaboration with industries/institutes	:	NIL

19 Awards / recognitions received at the national and international level by Faculty

	S.No.	Faculty Name	Year	Achievements	Event
	1.	Dr.R.Elavarasu	2012	"Senthamizh ko" Title	Andaman Tamizh Sangam Port Blair
	2.	Dr.R.Elavarasu	2014	Peraignar Anna Award	Karaikkal Thamizh Peravai
	3.	Prof. V.Sriramachandran	2014	National Trainer	Junior Chamber, International, India.
	4.	Prof. V. Sriramachandran	2014	International Trainer	Junior Chamber, International, India.

	∗ Doctoral / post doctoral fellows	:	---

∗ Students

- ❖ Received Recognition in State level Quiz Competitions.
- ❖ Students have won many prizes in Drama Competitions.
- ❖ Participated in Youth Parliament, Pune in Feb, 2015.
- ❖ Participated in National and International Academic activities.

20 Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

a) National

∗ A Three Day UGC Sponsored Symposium on **New Vistas of Research in English Studies** at National College, Tiruchirappalli, 6th through 8th of March 2014. Dr. D.E. Benet was the coordinator.

∗ A two-day National Seminar on **Canada: A Multitude of Spaces** on 01.02.2013 & 02.02.2013. 78 papers were presented. Dr. D.E. Benet was the coordinator.

1. One Day Workshop on **Communicational Dynamics for personality Development** was organized by the Department of English (UAP) on 08-10-2012.

∗ The Department of English Organized a two day National Seminar on **Indian Culture in Indian English Literature** from 08.01.2015 to 09.01.2015.

b) International

21 Student profile course-wise:

Name of the Course (refer question no. 2)		Applications received	Selected		Pass percentage	
			M	F	M	F
UG	2011-14	200	40	51	60	98
	2012-15	196	40	45	58	80
PG	2011-13	100	10	09	86	92
	2012-14	85	25	17	92	98
	2013-15	120	30	19	88	82

22 Diversity of Students

Name of the Course (refer question no.2)	% of students from the College	% of students from the state	% of students from other States	% of students from other countries
B.A	---	90%	10%	---
M.A	50%	90%	10%	---
M.Phil.	50%	95%	25%	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	NET - 84 SLET - 126
24	Student Progression		
	Student Progression	**Percentage against enrolled**	
	UG to PG	60%	
	PG to M.Phil.	20%	
	PG to Ph.D.	3%	
	Ph.D. to Post-Doctoral	---	
	Employed • Campus selection Every year about 15 students are selected as teachers in Private Schools through campus recruitment. • Other than campus recruitment 14 students got selected in Tamil Nadu Teachers Recruitment Board in the year 2014-2015. All the students who are graduated through the department get employment and lead dignified life.		
	Entrepreneurs	---	
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university	80%	
	From other universities within the State	20%	
	From other universities from other states	---	
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. Ph.D. - 06 Dr. R. Elavarasu Dr. S. Victoria Alan Dr. V. Sekar Dr. K. Srinivasan Dr. T.G. Akila Dr. M. Venkateswari		

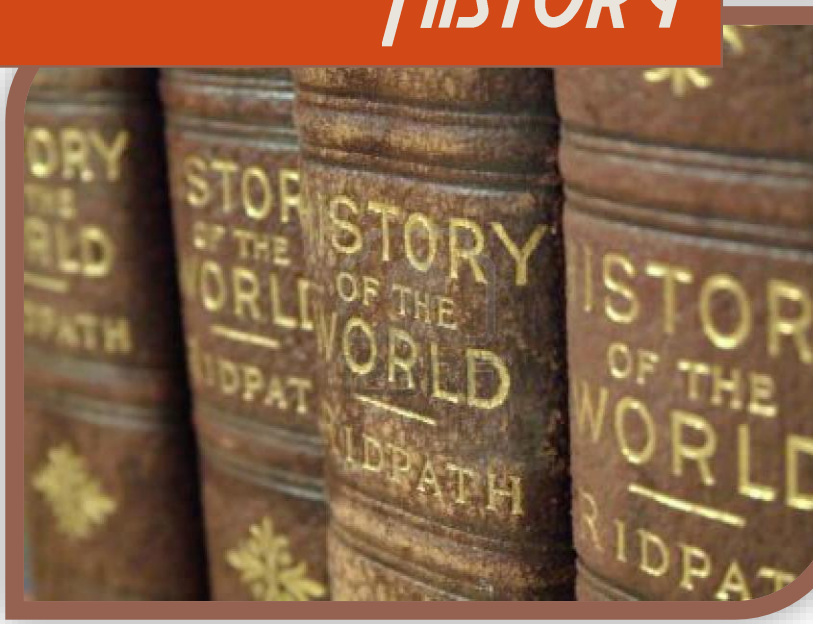
27	Present details about infrastructural facilities		
	a) Library	:	Central library has 14,227 books on various titles.
	b) Internet facilities for staff and students	:	Internet Facility with Wi-Fi
	c) Total number of class rooms	:	06
	d) Class rooms with ICT facility	:	01
	e) Students laboratories	:	Computer Lab for Skill Based Class
	f) Research laboratories	:	---
28	Number of students of the department getting financial assistance from College.	:	All the SC/ST/OBC students receive Govt. Scholarships.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	Based on the demand for the programme additional sections are added.
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? Feedback obtained from faculty members in periodic departmental meetings. The feedback is used in improving the teaching methodology and enriching the syllabus.		
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Feedback from students is used to alter and improve the syllabus as well as the approach to teaching.
	c. Alumni and employers on the programmes and what is the response of the department to the same? Yes. Based on the feedback of Alumni, the department started coaching classes for SLET/NET examinations. Huge success had been achieved by the candidates in the examinations, thanks to the coaching.		
31	List the distinguished alumni of the department (maximum 10) 1. Dr. N. Dhanavel, Professor of English, IIT, Chennai. 2. Dr. Jayasudha, TANSCHE, Chennai. 3. Mr. Sekar, Sub Editor, Dinamalar, Trichy. 4. Mr. C. Ramalingam, Media Executive, Dinamalar, Trichy 5. Dr. Napolean, Senior Treatment Supervisor Govt. Hospital. 6. Mr. Sivasubramanian, Sathyam TV 7. Dr. V. Sekar, Asso. Prof. National College, Trichy		

	8. Mr. G. Anand, Ganesh Builder, Chennai. 9. Dr. S. Ganesh, Asso. Prof. Govt. Arts College, Ooty. 10. Mr. Pugazhenthi, Inspector of Police, Pattukottai.
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. The following special lecture programmes were conducted by English Association during the last four years. * Dr. Abdul Mohamed Ali Jinnah, Asst. Prof. Dept. of English, Jamal Mohamed College delivered a lecture on Impact of Literature on life on 16.08.2011. * Dr. Mohamed Ibraheem, Head, Dept. of English, Jamal Mohamed College, Trichy delivered a lecture on Discover the Diamond on 22.03.2012. * Dr. J. John Love Joy, Asst. Prof. of English, St. Joseph's College, Trichy delivered a lecture on Discovering a Word's Worth on 26.09.2013. * Dr. M.H. Mohamed Rafiq, Asst. Prof. in English, Jamal Mohamed College, Trichy delivered a lecture on English for Special purpose on 27.09.2012. * Mr. R. Vijayasankar, Editor delivered a lecture on Media and Society on 16.10.2012. * Mr. V.L. Jayapaul, Asst. Prof. of English, St. Joseph's College, Trichy delivered a lecture on Attitude to reach High Attitude on 18.03.2014. * Thiru. A. Mohamed Safiullah, Retd. Prof. Jamal Mohamed College, Trichy delivered a lecture on Ingenious Reading of Poetry on 14.03.2014. * Dr. Catherine Edward, Vice-Principal, Holy Cross College delivered a lecture on Roads can be taken on 02.08.2014. * Dr. K.S. Dhanam, Asso. Prof. Department of English, Periyar EVR College delivered a lecture on Rereading Poetry on 26.08.2014. * Prof. G. Ravindran, Former Head, Dept. of English, St. Joseph's College, Trichy delivered a lecture on Prose for Pleasure on 25.09.2014. * Dr. R. Shanthi, Asso. Prof. A.V.V.M. Sri Pushpam College, Poondi, Thanjavur delivered a lecture on Literature and Mass Communication on 18.09.2014. * Prof. Amutha, Auxilium College, Vellore delivered a lecture on Voice and Voiceless on 13.03.2015. * Dr. A. Mohamed Ali Jinnah, Asso. Prof. of English, Jamal Mohamed College, Trichy delivered a lecture on Reading is nothing but habit formation on 18.08.2015. * Dr. C. Issac Jebastine, Prof. and Head, Dept. of English, Bharathidasan University delivered a lecture on The Role of English in the Modern World on 21.08.2015.

	* Prof. G. Ravindran, Former Head, Dept. of English, St. Joseph's College, Trichy delivered a lecture on English for Employability on 07.10.2015.		
33	List the teaching methods adopted by the faculty for different programmes. * Lecture Method * Power Point Presentation, * Group Discussion, * Seminar taken by Students * Question Hour Session * Interaction with students		
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * Review of progress to ensure timely completion of the syllabus * Follow up of work as laid down in academic calendar * Review of students' performance through Tutor Ward System		
35	Highlight the participation of students and faculty in extension activities. Dr. R. Elavarasu, Programme officer for Scout Dr. V. Sekar, Coordinator for Drama Club Dr. K. Srinivasan, Coordinator for Human Rights Education Prof. V. Sri Ramachandran, Served as NSS P.O for 5 years; Exnora, 5 years in JCI Dr. V. Srividhya, Served as NSS P.O for 5 years; Exnora, 5 years in JCI and Drama Club		
36	Give details of "beyond syllabus scholarly activities" of the department. * Training the students to participate in Quiz, Oratorical &Essay writing Competitions. * Drama club is quite active. * Mr. V. Sri Ramachandran, is a Coordinator for Certificate course on Journalism. * Many staff members guide scholars for M.Phil. and Ph.D. Degree. * Many special lecture programmes were organized.(See S.No. 32)		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	Nil
38	**Strength** Effective Teaching, Quality Research, Skilled Staff, A good collection of books on English Literature in Library. **Weakness** * Students with average scores, hailing from rural areas * Students having studied in Tamil medium up to higher secondary.		

	Opportunity * Scope for conducting spoken English classes * Coaching for appearing for competitive examinations * Strengthening of coaching for NET/SLET * Scope for improvement of Communication skills **Challenges** * Attracting students with the right aptitude * Overcoming the mental blocks and inhibitions of students from humble backgrounds.
39	Future plans of the department. • To establish a Language Laboratory. • To encourage every student to make use of technology to augment their learning. • To adopt local schools (Govt. Corporation Schools) as part of extension activity of the Department. • To introduce need-based Certificate and Diploma Programmes.

Evaluative Report of the Department of History



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EVALUATIVE REPORT OF THE DEPARTMENT OF HISTORY

1	Name of the Department & its Year of Establishment	:	History, 1981 - 82
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.A., HISTORY
3	Interdisciplinary courses and departments involved The Department offers the following NME courses to the students of other departments such as Commerce, Economics and English * History of freedom Movement * Indian Constitution		
4	Annual / semester/choice based credit system	:	Semester with Choice based credit system
5	Participation of the department in the courses offered by other departments	:	Students of History take up courses offered in Tamil, Economics and Philosophy department as NME.
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	---	---
	Assistant Professors	04	03

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Prof. S. Kailasam	M.A. M.Phil.	Associate Professor & Head	Public Administration Journalism	33 Years	---
2.	Dr. K. Pandian	M.A. M.Phil., Ph.D.,	Associate Professor	History of Tamil Nadu, Modern Indian History	31 Years	---
3.	Prof. P. Parimala Sekar	M.A. M.Phil., B.Ed.,	Associate Professor	Modern Government, History of Europe.	14 Years	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	20%
9	Programme-wise Student Teacher Ratio	:	10:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	---
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.	:	---
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	---
13	Research facility / Centre with • State recognition • National recognition • International recognition	:	---
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	01
	Monographs	:	---
	Chapter(s) in Books	:	---
	Editing Books	:	---
	Books with ISBN numbers with details of publishers	:	---
	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	---
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	---
	h-index	:	---

15	Details of patents and Income generated	:	---
16	Areas of consultancy and Income generated	:	---
17	Faculty recharging strategies Staff members * attend Refresher Courses * Attend Workshop and Seminars * publish Research and Popular articles.		
18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	The department offers only UG programme. There is no project in the curriculum.
	• Percentage of students doing projects in collaboration with industries/institutes	:	---
19	Awards / recognitions received at the national and international level by		
	• Faculty	:	---
	• Doctoral / post doctoral fellows	:	---
	• Students	:	---
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.	:	---

21 Student profile course-wise:

Name of the Course (refer question no. 2)	**Applications received**	**Selected**		**Pass percentage**	
		M	**F**	**M**	**F**
B.A. 2011-2012	50	30	12	70%%	22%
2012-2013	30	10	09	30%	22%
2013-2014	38	12	07	45%	18%
2014-2015	40	10	02	70%	21%

22 Diversity of Students

Name of the Course (refer question no.2)	**% of students from the College**	**% of students from the state**	**% of students from other States**	**% of students from other countries**
B.A.	---	100%	---	---

23	How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?	:	---
24	Student Progression		
	Student Progression		**Percentage against enrolled**
	UG to PG		60%
	PG to M.Phil.		---
	PG to Ph.D.		---
	Ph.D. to Post-Doctoral		---
	Employed • Campus selection • Other than campus recruitment		 --- 40%
	Entrepreneurs		---
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		---
	From other universities within the State		75%
	From other universities from other states		25%
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	---
27	Present details about infrastructural facilities		
	a) Library	:	5,920 books on History are available in the central library
	b) Internet facilities for staff and students	:	---
	c) Total number of class rooms	:	03
	d) Class rooms with ICT facility	:	01
	e) Students laboratories	:	---
	f) Research laboratories	:	---
28	Number of students of the department getting financial assistance from College.	:	All SC/ST/OBC students receive Govt. Scholarships.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	No new programme has been introduced.

30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?	:	Feedback from the faculty is obtained in periodic meetings held in the Dept. It is used to improve the syllabus and alter the approach to teaching.
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?	:	Inputs in the form of feedback from students are used to improve quality of assignments, teaching methods and course content.
	c. Alumni and employers on the programmes and what is the response of the department to the same?	:	Suggestions from alumni are considered to enhance the utility of the programme in terms employability skills and life skills.
31	List the distinguished alumni of the department (maximum 10) * Mr. Akbar Hussain, HOD, Dept of History Jamal Md. College * Mr. Sendhil Kumar, Dept. of History, University Consituent College, Perambalur * Mr. Manivannan, Dept. of History Govt. Arts College, Thiruvermbur. * Mr. Chandra Hasan, Dept. of History, Govt. A.A.A. College, Musiri. * Mr. Raj Kumar. Dept. of History, Govt.of Arts College, Udhagamandalam. * Mr. Elankovan, Lawyer, Trichy * Mr. Shankaralingam, Deputy Superintendent of Police * Mr. Senthil Kumar, Deputy Superintendent of Police		
32	Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. Eminent Historians are invited to deliver a special programme. The programmes conducted are 1. Dr. S. Xavier, Asst. Prof. Dept. of History, Arignar Anna Arts College, Musiri delivered a lecture on History and Employment Opportunities on 30.01.2012. 2. திரு. கே. பாலகிருஷ்ணன், முதல்வர், பாரதி மெட்ரிக் மேனிலைப்பள்ளி அவர்கள் பாசறை ஓவியங்கள் தலைப்பில் 19.09.2013 அன்று சிறப்புரையாற்றினார். 3. முனைவர், S. பத்மநாபன், செயலாளர், கன்னியாகுமரி வரலாறு மற்றும் கலாச்சார ஆய்வு மையம், நாகர்கோவில் அவர்கள் திருவள்ளுவரின் வரலாற்று அடிச்சுவடுகள் என்ற தலைப்பில் 21.08.2012 அன்று சிறப்புரையாற்றினார். 4. Prof. T. Arulanandu, Asso. Prof. of History, Bishop Heber College delivered a lecture on Uses of History on 18.03.2014.		

33	List the teaching methods adopted by the faculty for different programmes.	:	∗ Lecture method ∗ Group Discussion and Debates ∗ Power Point Presentation
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? ∗ Timely completion of the syllabus ∗ Periodic staff meetings to review the work done and plan for ensuing semesters ∗ CIA Tests and Class Tests ∗ End Semester Examinations		
35	Highlight the participation of students and faculty in extension activities. ∗ Dr. V. Ram Kumar was successfully managing the affairs of the Fine Arts Association facilitating participation of our students in a large number of programmes and securing of a large number of prizes. ∗ Prof. Parimalasekar is now coordinating the activities of the Association which has carved a niche for itself in the field of Fine Arts.		
36	Give details of "beyond syllabus scholarly activities" of the department. ∗ Students are trained and encouraged to participate regularly in Quiz Programme, Essay Writing and oratorical events organized in other Colleges. ∗ Every year field trip to places of historical importance is conducted.		
37	State whether the programme/department is accredited/graded by other agencies. Give details.	:	---
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strength** ∗ Teachers with specialization and Ph.D. Degrees ∗ Well-equipped Library with a collection of over 5920 books ∗ Class rooms with conducive atmosphere for study **Weakness** ∗ Lack of Communication and good grasp on the part of the students. **Opportunity** ∗ Good opportunity to coach the students for competitive examinations. ∗ Scope for offering short duration courses on history to students of other department and civil service aspirants.		

	Challenges * Difficulties in attracting students with real interest in the subject * Low economic status of the students. * Lackadaisical interest on the part of many students due to their pre occupation with work.
39	Future plans of the department. * Introduction of M.A. History Programme. * Conduct of short duration courses on Indian Constitution and History

Evaluative Report of the Department of

Tamil

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EVALUATIVE REPORT OF THE DEPARTMENT OF TAMIL

1	Name of the Department & its Year of Establishment	:	Tamil, 1957
2	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	:	B.A., Tamil M.A., Tamil M.Phil. Tamil Ph.D. Tamil
3	Interdisciplinary courses and departments involved Agricultural Economics - Economics & Tamil Sirappu Tamil - II - Tamil and other departments		
4	Annual / semester/choice based credit system	:	Semester and Choice Based Credit System
5	Participation of the department in the courses offered by other departments	:	The department offers Non Major Elective for students of Economics, Commerce, Botany and Zoology
6	Number of Teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)		

		Sanctioned	**Filled**
	Professors	---	---
	Associate Professors	07	07
	Assistant Professors	20	17

7	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)					
	Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D. Students guided in the last 4 years**
1.	Dr. K. Rajarathinam	M.A. M.Phil., Ph.D.	Head	Modern Literature	29	01
2.	Dr. S. Eswaran	M.A. M.Phil., Ph.D.	Associate Professor	Journalism	24	11
3.	Dr.S.Thirumavalavan	M.A. M.Phil., Ph.D.	Associate Professor	Grammar	24	12
4.	Dr. R. Sabapathy	M.A. M.Phil., Ph.D.	Associate Professor	Grammar	18	04
5.	Dr. N. Manickam	M.A. M.Phil., Ph.D.	Associate Professor	Epic Literature	15	04
6.	Dr. S. Gandhi	M.A. M.Phil., Ph.D.	Associate Professor	Grammar	15	01
7.	Dr. R. Ravichandran	M.A. Ph.D.	Associate Professor	Folklore	14	06
8.	Dr. S. Neelagandan	M.A. Ph.D.	Assistant Professor	Bhakthi Literature	08	01

9.	Dr.A. Muruganantham	M.A. M.Phil., Ph.D.	Assistant Professor	Grammar	07	---
10.	Dr. R. Sundaravel	M.A. M.Phil., Ph.D.	Assistant Professor	Criticism	07	---
11.	Dr. A. Krishnan	M.A. M.Phil., Ph.D.	Assistant Professor	Folklore	07	---
12.	Mr. T. Ramadoss	M.A. M.Phil.,	Assistant Professor	Modern Literature	07	---
13.	Dr. R. Kala	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	07	---
14.	Dr. S. Ananthavel	M.A. M.C.J., DCA M.Phil., Ph.D.	Assistant Professor	Sangam Literature Computer	07	---
15.	Dr. S. Kowsalya	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	June 2015	---
16.	Dr.R.Manickavasagam	M.A. M.Phil., Ph.D.	Assistant Professor	Bhakthi Literature	09	---
17.	Dr. G. Ramachandran	M.A. M.Phil., Ph.D.	Assistant Professor	Folklore	08	---
18.	Dr. K. Bhuvaneswari	M.A. M.Phil., Ph.D.	Assistant Professor	Epic Literature	06	---

19.	Dr. K. Muthaiyan	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	05	---
20.	Mr. S. Karuthan	M.A. M.Phil.,	Assistant Professor	Modern Literature	03	---
21.	Dr. K. Murugesan	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	02	---
22.	Dr. P. Sumathy	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	June 2015	---
23.	Dr. R. Bhuvaneswari	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	June 2015	---
24.	Dr. V.K. Kuppusamy	M.A. M.Phil., Ph.D.	Assistant Professor	Modern Literature	June 2015	---

8	Percentage of classes taken by temporary faculty – Programme-wise information	:	Part – I Tamil - 37% Part –III Major - 30% M.A. Tamil - 5%
9	Programme-wise Student Teacher Ratio	:	B.A. - 10:1 M.A. - 5:1 M.Phil. - 2:1 Ph.D. - 2:1
10	Number of academic support staff (technical) and administrative staff; sanctioned and filled	:	---
11	Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. Projects Completed 1. Dr. R. Sabapathy – The Language style of Tamil Advertisements – August – 2010 to January – 2012 (UGC) Rs. 70,000/- 2. Dr. R. Ravichandran – Ceremonies and Believes of Thoda Tribes in Nilgiri District (February 2014) (UGC) Rs. 1,00,000/-		
12	Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received	:	---
13	Research facility / Centre with • State recognition ★ A Research department with a long and glorious history. ★ The first research department in a college, when it was affiliated to the University of Madras. ★ The number of students awarded Ph.D. from the Department is the highest in Bharathidasan University. • National recognition • International recognition		
14	Publications		
	No. of papers published in peer reviewed journals (National / International)	:	17
	Monographs	:	---
	Chapter(s) in Books	:	---
	Editing Books	:	02

	Books with ISBN numbers with details of publishers - 08			
	Name of the Book	**Page. No.**	**Year**	**ISBN No.**
	Modern Lit.	(Pp 1-441)	April 2013	978-93-81521-267
	Social Problems and Remedies in Lit.	Vol – I (Pp 1-396) Vol – Ii (Pp 1-442)	April 2014	978-93-81521-267
	Aivum aivedum	103	2014	978-93-80217-96-3
	Ilaikya kolkai	274	2014	978-93-80217-36-9
	Mozhiperupukalai	185	2014	978-93-80217-98-7
	Humanrights	172	2014	978-93-80217-93-2
	Literary Criticism	127	2014	978-93-80217-35-2
	Mass Communication	192	2014	978-93-80217-70-3

	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)	:	---
	Citation Index – range / average	:	---
	SNIP	:	---
	SJR	:	---
	Impact Factor – range / average	:	---
	h-index	:	---
15	Details of patents and Income generated	:	---
16	Areas of consultancy and Income generated	:	---
17	Faculty recharging strategies * Faculty members attend orientation and Refresher courses. * The department conducts workshops and seminars to provide exposure to students and staff and kindle interest in research * Staff members attend workshops and seminars conducted by other institutions. * Publish popular articles * Talk in All India Radio		
18	Student projects		
	• Percentage of students who have done in-house projects including inter-departmental	:	P G. Students - 100%

	• Percentage of students doing projects in collaboration with industries/institutes	:	---
19	Awards / recognitions received at the national and international level by		
	• Faculty	:	Dr. S. Neelakandan, Asst. Prof. has received the State level Best Orator Award. He is a popular Tamil Orator in Tamil Nadu.
	• Doctoral / post doctoral fellows	:	---
	• Students UGC – JRF 1. Mr. S. Muralitharan, Ph.D. 2011-2015 2. Mr. K. Murugesan, Ph.D. 2011-2014 3. Mrs. A. Sharmila, Ph.D. 2011-2014 4. Mr. S. Ananthan, Ph.D. 2010-2015 5. Mr. D. Prem Kumar, Ph.D. 2010-2014 Classical Tamil 1. Mrs. D. Venkateswari, Ph.D. 2012-2013		
20	Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. 1. பல்கலைக்கழக நிதி நல்கைக்குழுவின் தன்னாட்சி உதவியுடன் **தமிழ் இலக்கியங்களில் பதிவாகியுள்ள சமுதாய நெருக்கடிகளும் அவற்றுக்கான தீர்வுகளும்** என்ற கருத்தரங்கு ஏப்ரல் 9 மற்றும் 10, 2012 தேதிகளில் நடத்தப்பட்டது. 2. இந்திய தேசியத் தேர்வு பணியின் சார்பாக 03-10-2012முதல்07-10-2012 வரை வினாத்தாள் தயாரிப்பதற்கான பயிற்சிப்பட்டறை தமிழ்த்துறை சார்பாக நடைபெற்றது. 3. இந்திய தேசியத் தேர்வு பணியின் சார்பாக 18-08-2012 அன்று ஒரு நாள் பயிற்சி பட்டறை பத்துப் பேராசிரியர்களுக்கு நடத்தப்பெற்றது. 4. இந்திய தேசியத் தேர்வு பணியின் சார்பாக 21-04-2013 அன்று ஒரு நாள் பயிற்சி பட்டறை பத்துப் பேராசிரியர்களுக்கு நடத்தப் பெற்றது. மைய நிறுவனத்திலிருந்து பேரா.இளங்கோவன் வினாத்தாள் தயாரிப்பது குறித்துப் பயிற்சி அளித்தார். 5. பல்கலைக்கழக நிதி நல்கைக்குழுவின் தன்னாட்சி உதவியுடன் **இருபதாம் நூற்றாண்டு இலக்கியங்களில் காணப்படும் தொழிலாளர்களின் வாழ்வியல் சிக்கல்களும் தீர்வுகளும்** என்ற தலைப்பில் தேசியக் கருத்தரங்கம் தமிழ்த் துறை சார்பாக மார்ச் 12-04-2013 மற்றும் 13-04-2013 ஆகிய தேதிகளில் நடைபெற்றது. 6. தமிழ்த் துறை **தொல்காப்பிய எழுத்தும் - சொல்லும் மரபுப் பார்வையும் மொழியியல் பார்வையும்** என்ற தலைப்பில் 22.12.2013 முதல் 31.12.2013 வரை பயிலரங்கம் நடத்தியது.		

	7. இந்திய தேசிய தேர்வுப் பணி மையமும் நமது கல்லூரி தமிழ்த் துறையும் இணைந்து **இலக்கணம் கற்பித்தலும் மதிப்பிடுதலும்** என்ற தலைப்பில் 14.03.2014 மற்றும் 15.3.2014 ஆகிய தேதிகளில் தேசிய கருத்தரங்கம் நடத்தியது. 8. தமிழ் துறை பல்கலைக் கழக நிதி நல்கை குழுவின் தன்னாட்சி நிதி உதவியுடன் **சங்க இலக்கியங்களில் வாழ்வியல் விழுமியங்கள்** என்னும் தலைப்பில் 11.08.2014 அன்று தேசிய கருத்தரங்கம் நடத்தியது

21 Student profile course-wise:

	Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
			M	F	M	F
	B.A. Tamil 2014-2015	45	20	09	90%	96%
	B.A Tamil 2013-2014	48	12	12	90%	100%
	B.A Tamil 2012-2013	47	15	08	98%	100%
	M.A. Tamil 2014-2015	20	06	05	100%	100%
	M.A. Tamil 2013-2014	20	03	12	100%	100%

22 Diversity of Students

	Name of the Course (refer question no.2)	% of students from the College	% of students from the state	% of students from other States	% of students from other countries
	B.A.	---	100%	---	---
	M.A.	60%	100%	---	---
	M.Phil.	20%	100%	---	---
	Ph.D.	20%	100%	---	---

23 How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? - 10

- Mrs. D. Venkateswari – Passed TET Exam – Appointed as PG Teacher in Tamil, Govt. Hr. Sec. School, Pudukottai. Feb, 2014
- Mr. R. Kathiresan – Blind – Passed TET Exam – Appointed as PG Teacher in Tamil, Syed Murthusha Govt. Hr. Sec. School, Trichy, April, 2014.
- 5 Scholars have cleared UGC JRF/NET exam.

24 Student Progression

	Student Progression	Percentage against enrolled
	UG to PG	80%
	PG to M.Phil.	50%
	PG to Ph.D.	20%

	Ph.D. to Post-Doctoral		---
	Employed • Campus selection • Other than campus recruitment		 10% 70%
	Entrepreneurs		20%
25	Diversity of Staff		
	Percentage of faculty who are graduates		
	Of the same parent university		81%
	From other universities within the State		19%
	From other universities from other states		---
26	Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.	:	01 - Dr. A. Krishnan
27	Present details about infrastructural facilities		
	a) Library	:	20,149 books
	b) Internet facilities for staff and students	:	Yes, in the Department
	c) Total number of class rooms	:	06
	d) Class rooms with ICT facility	:	01
	e) Students laboratories	:	---
	f) Research laboratories	:	---
28	Number of students of the department getting financial assistance from College :06		All the SC/ST/OBC students get government scholarships.
29	Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.	:	---
30	Does the department obtain feedback from		
	a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? Discussions are held among staff members in the Department meetings, and the corrections are implemented where ever necessary.		
	b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? Feedback received through the college is evaluated by the staff. Appropriate action like changes in the syllabus or teaching as well as evaluation is made.		

c. Alumni and employers on the programmes and what is the response of the department to the same?

The department nominates Alumni to the Board of Studies. They take an active interest in the framing of the syllabi of various programmes. Further, the department makes use of the suggestions of our alumni as well as prospective employers for improvement of the syllabus and the methods of teaching.

31 List the distinguished alumni of the department (maximum 10)

Name	Presently working as
Sri. Dr. A. Balu	Prof. & Head, University of Madras, Chennai-600-005.
Sri. Dr. P. Venkatesan	Associate Prof. of Tamil, Periyar E.V.R College, Tiruchi-23.
Sri. Dr. T. Selvaraj	Associate Prof. of Tamil, Jamal Mohamed College, Tiruchi-20
Sri. Dr. Pon. Pushparaj	Associate Prof. of Tamil, St. Joseph's College, Tiruchi-2
Mr. T.M. Tamizh Alagan	Reporter, Dinamalar, Tamil Daily, Tiruchi-1
Mr. R. Kathiresan	P.G. Teacher Syed Murthasa Hr. Sec. School, Tiruchi-8
Sri Dr. M. Elango	Associate Prof. of Tamil, Karanthi College, Thanjavur
Sri. Dr. P. Muthusamy	Associate Prof. of Tamil, Govt. Arts College, Salem-7
Sri. Dr. G. Muralitharan	Asst. Prof. of Tamil, Govt. Arts College, Kulithalai
Sri Dr. N. Sivaji Kabilan	Associate Prof. of Tamil, Sri Pushpam College, Poondi, Thanjavur
Mrs. Dr. V. Usha	Asst. Prof. of Tamil, Madura College, Madurai-11

32 Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts

1. Mr. R. Gopinath (2013-2016) of III B.A. Tamil participated in a discussion in a Private Channel (TV) (live relay)
2. Many Endowment lectures, Association meetings and Seminars are conducted. Students also attend seminars held by other institutions.

The following special lecture programmes were conducted by Tamil Association during the last four years.

* முனைவர். தி. நெடுஞ்செழியன், இணைப் பேராசிரியர், மயிலாடுதுறை, தமிழ்மொழி எவ்வாறு கணிதம் மற்றும் கணினித்துறையில் பயன்படுத்தப்படுகிறது என்பதை விளக்கினார் 29.07.2011.
* முனைவர். துரை மணிகண்டன், உதவிப்பேராசிரியர், பாரதிதாசன் பல்கலைக்கழக உறுப்புக் கல்லூரி, திருச்சி அவர்கள் தமிழ் வளர்ச்சியில் இணையத்தின் பங்களிப்பு என்ற தலைப்பில் 03.03.2012 அன்று உரையாற்றினார்.

	* உருமு தனலெட்சுமி கல்லூரி தமிழ்த்துறைப் பேராசிரியை முனைவர். ந. விஜயசுந்தரி அவர்கள் காலந்தோறும் இன்னிசை என்ற தலைப்பில் 12.08.2013 அன்று சிறப்புரையாற்றினார். * புலவர். திருவாரூர் ரெ. சண்முகவடிவேலு அவர்கள் சங்கமும் தங்கமும் என்ற தலைப்பில் 01.10.2013 அன்று சிறப்புரையாற்றினார். * தமிழ் பேராசிரியர். முனைவர். அ. சையத் ஜாகீர் ஹசன் அவர்கள் இலக்கியத்தில் இன்பம் என்ற தலைப்பில் 30.07.2012 அன்று சிறப்புரையாற்றினார். * புலவர். திருவாரூர் ரெ. சண்முகவடிவேல், தமிழாசிரியர் (ஓய்வு), அவர்கள் சிரித்து வாழ வேண்டும் என்ற தலைப்பில் 19.01.2013 அன்று சிறப்புரையாற்றினார். * முனைவர், வை. இராமன், தமிழ்ப்பேராசிரியர், அரசு கலைக்கல்லூரி, திருவெறும்பூர் அவர்கள் சங்க இலக்கியம் காட்டும் தமிழர் பேராண்மை என்ற தலைப்பில் 19.12.2012 அன்று சிறப்புரையாற்றினார். * திருச்சிராப்பள்ளி சட்டக்கல்லூரி கௌரவப் பேராசிரியர் வழக்குரைஞர் மனோகரன் அவர்கள் பேசுங்கலை என்ற தலைப்பில் 19.09.2014 அன்று சிறப்புரையாற்றினார். * மனோன்மணீயம் சுந்தரனார் பல்கலைக்கழகத் தமிழ்த்துறைத்தலைவர் பேரா. அழகேசன் அவர்கள் இலக்கணச்சுவை என்ற தலைப்பில் 11.02.2015 அன்று சிறப்புரையாற்றினார். * மேலைச்சிவபுரி கணேசர் செந்தமிழ் கல்லூரியின் மேனாள் முதல்வர் தமிழாகரர் முனைவர். பழ. முத்தப்பன் அவர்கள் எது இன்பம் என்ற தலைப்பில் 24.07.2015 அன்று சிறப்புரையாற்றினார்.
33	List the teaching methods adopted by the faculty for different programmes. 1. Chalk and talk method 2. Power Point Presentation 3. Literary discussions and debates
34	How does the department ensure that programme objectives are constantly met and learning outcomes monitored? * Students are trained on Tamil Literature to make them understand the intricacies of the language * Performance of the students are assessed through assignments, class test, CIA test and end semester examinations. * Oratorical and essay competitions are organized to understand the skill level of students.
35	Highlight the participation of students and faculty in extension activities. * College conducts an intercollegiate literary competition in the name of 'Muthamizh vizha'. The department students participate largely in the competitions. * College also conducts an intercollegiate fine arts competition in the name of NACOFEST. The students of the department participate in all the competitions. * The Literary debate among the group of students is regularly organized in the department.

	∗ Students also participate in NSS, NCC and other club activities. ∗ Mr. S. Karuthan, Asst. Prof. is a coordinator of NSS unit.		
36	Give details of "beyond syllabus scholarly activities" of the department. ∗ We urge students to read more books apart from syllabus. Also we encourage them to write poems, essays and short stories on their own. The faculty members take special efforts to nurture creative talents among the students ∗ Students are regularly participating in Quiz programmes, Essay writing and Oratorical events organized in other colleges. ∗ Special lectures are organized by inviting eminent scholars from other institutions.		
37	State whether the programme/department is accredited / graded by other agencies. Give details.	:	---
38	Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department **Strengths** ∗ Excellent faculty is the major strength. Many staff members are excellent public speakers. They are sought after by the public bodies, educational institutions and commercial agencies for debates, discussions and speeches. ∗ The team spirit of the department is another major strength. ∗ Research focus is another area of strength. One of the earliest research departments, the department has a prodigious research output. ∗ Books published by staff members are prescribed as text books in various Autonomous Colleges; Most of the staff members are Doctorates. ∗ A section of the students evince a keen interest in essay writing, public speaking and poetry. They have won laurels by winning in many competitions. **Weakness** ∗ Some of the staff members do not possess computer knowledge. ∗ Some students coming from rural backgrounds lack enthusiasm and do not come forward to participate in literary pursuits due to inhibitions. **Opportunities** ∗ The department has good opportunities for research in Tamil literature, culture etc in view of its richness and long history ∗ Tremendous opportunities are available to the department to enrich the students of other departments through language teaching , by offering priceless ancient wisdom to the youth		

	Challenges ∗ Students are from rural areas and usually have low scores in higher secondary exams. Educating them is a challenge. ∗ Students of Tamil are not easily placed in the Campus Interview.
39	Future plans of the department. Training will be given for: 1. Public Speaking in Tamil (on the stage) 2. Tamil Poetry writing 3. Writing for journalism

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Post Accreditation Initiatives

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POST ACCREDITATION INITIATIVES

Activities, developments and other initiatives taken place in the College during the Post Accreditation period are given below.

Since accreditation in 2011, the College has taken several initiatives to strengthen every dimension and add new dimensions to fulfil its mission with vim and vigour.

UGC recognized the College as **College with Potential for Excellence** in 2012**.** DST has recognized the college for support under **FIST** scheme and grants have been received. UGC extended the **Autonomous Status** to the College till 2021-2022.

I - Curricular Aspects

The college has a well designed and carefully prepared curriculum, incorporating knowledge as well as skill component in every unit of the syllabus of each course.

The Board of Studies of each programme is constituted with subject experts from Bharatidasan University, other colleges and industry, with a view to provide a comprehensive, well rounded, practice oriented syllabus.Syllabus of all the programmes have been reviewed and revamped twice during the post accreditation period.

The following new programmes were introduced

1. B.A., English - Additional Section
2. B.Sc., Biotechnology
3. B.Sc., Computer Science - Additional Section
4. B.Sc., Mathematics - Additional Section
5. B.Sc., Physical Education
6. B.Sc., Statistics
7. B.Com., Computer Application
8. B.Litt.
9. M.A., English - Additional Section
10. M.A. Human Resource Management
11. M.Sc., Biotechnology
12. M.Sc., Botany – Additional Section
13. M.Sc., Microbiology
14. M.Com. Financial Management
15. M.B.A
16. M.Phil., Biotechnology

17. M.Phil. in Physical Education
18. Ph.D. in Management
19. Ph.D. in Biotechnology
20. Ph.D. Physical Education
21. Ph.D. Zoology

Innovative Programme

UGC has approved our proposal to start PG Diploma in Bioprocess Technology under Innovative Scheme. The Programme commenced from the academic year 2013-2014. A grant of Rs.60,00,000/- and three staff members with UGC Scale have been sanctioned through this scheme.

II - Teaching-Learning and Evaluation

Teachers adopt both chalk and talk method and ICT mode of teaching. Webinar and tele conferencing are conducted periodically for PG students. They are required to make power point presentations during class seminars.Teachers adopt interactive method of teaching in all the classes.

Student results

The results in end semester examinations hover around 90% for PG students and 75% for UG students. Students have recorded 100% pass in many PG programmes. 2436 UG students and 945 PG students have graduated through the College during the period.

Endowment Lectures

The College has a rich tradition of inviting eminent persons in various walks of life to deliver lectures under the endowment scheme. **34 Endowment lecture** programmes were conducted during the last four years. Further, experts from business, industry and academics deliver special lectures under the auspices of departmental associations. Atleast three meetings are held every semester in each department. This practice has been found to be quite useful to provide exposure to the practical aspects,research areas and insight into the recent developments in their fields.

Evaluation

Choice Based Credit System (CBCS) is adopted in all the UG, PG and M.Phil. Programmes. College follows an exclusive method, with well defined parameters, for the award of Continuous Internal Assessment (CIA) marks. All the activities of Office of the Controller of Examinations have been computerized. Submission of end semester application form, issue of hall

ticket and publication of results are carried out through online. Re-evaluation and instant examinations are conducted.

III - Research, Consultancy and Extension

The College has the distinction of excellent research output. During the Post Accreditation period, 85 Ph.D. degrees and 318 M.Phil. Degree have been awarded to scholars of the College. 05 Major projects and 07 Minor projects have been completed and 07 Major projects and 01 Minor project are ongoing. 466 research papers and 29 books have been published by our staff and scholars during the period. 03 scholars receive Rajiv Gandhi Fellowship, 05 scholars receive JRF and one scholar receives Moulana Azad Fellowship for doing Ph.D.

A total of 49 Seminars/Workshops/Conferences have been organized by various departments of the College. Many staff have presented research papers in overseas Conferences/Seminars.

NCIF

A common instrumentation facility named as National College Instrumentation Facility (NCIF) has been established in the college to support the researchers in Science departments. The centre has a wide range of advanced analytical equipment such as Scanning Electron Microscope (SEM), GC-MS, HPLC, AAS, Flow Cytometer, Fluorescence Spectrophotometer, Gel Documentation System, Millipore Water Purification System, Micro Hardness Tester, FT-IR etc.

MoU Signed

- **Consortium Clinical Research Pvt. Ltd., Coimbatore** and our College have signed a Memorandum of Understanding to offer a Post Graduate Diploma in Clinical Trial Management and Regulatory Affairs for the students of pharmaceutical, Paramedical and Life Sciences.

- A memorandum of understanding has been signed with **International Tamil Language Foundation (ITLF),** a nonprofit, tax exempt USA foundation to implement the Project **SPARC-EDUPAC**. As per the terms, our students of UG Physics will be taught lessons prepared by Annenberg Foundation, USA.

- Our college has signed a MoU with **UTL Technologies**, Bangalore to offer B.Sc Remote Infrastructure Management Programme under the scheme KAUSHAL.

- Our College has signed a MoU with **Studio Image**, Tiruchirappalli to offer B.VOC. programme in Digtal Visual Media.

- National College and **SSB Shrine of Overseas Learning** has signed a memorandum of understanding to establish an office in the college campus to promote the higher studies of students in foreign countries.

The following staff and scholars have received awards for their research work

1. Prof. K. Srinivasan, Dept. of English was awarded the Best Paper award for his paper entitled "**Dance of Muruga"** presented in International Conference on World Murugabakthas held in the Department of Indian Studies, University of Malaya, Malaysia.
2. Dr. S. Senthil Kumar, Asst. Prof., Department of Biotechnology was awarded the Best Paper Award for his paper entitled "**Biological treatment of textile wastewater and its re-use in irrigation: Encouraging water efficiency and sustainable development"** presented in the Second International Conference on Water Resources and Environmental Management: Water, Food Energy Security and Climate Change held at Geneva, Switzerland during9- 11, April 2013.
3. Ms. Sangeetha, Asst. Prof., Dept. of Chemistry was awarded the Best Paper Award for her Paper entitled "**DNA and Protein Binding, DNA Cleavage and Cytotoxic Activity of Square-Planner [Cu^{II}(quinmol)CI] Complex"** presented in a Seminar held at Banaras Hindu University, Varanasi on 1 – 3, February 2013.
4. Dr. S. Senthil Kumar, Assistant Professor, Department of Biotechnology, has been selected for the award of **Young Scientist Fellowship** for the year 2014-2015 by **Tamil Nadu State Council for Science and Technology, Chennai**. Under the scheme he is eligible to work in any National Institute for two months with a Fellowship and TA & DA
5. Ms. S. Shantkriti, Assistant Professor, Department of Biotechnology received best paper award for her Paper entitled "**Coelomic fluid of Earthworm: A potent mosquito larvicide"** in National conference on Environmental Issues an Challenges Vision 2020 held at Annamalai University, Chidambaram (27^{th} & 28^{th} Sept, 2013)
6. Ms. S. Shantkriti, Assistant Professor, Department of Biotechnology received the best paper award for her Paper entitled "***In-silico* approach for decolorization of textile azo dyes"** in the National conference on Mathematical Modeling in Molecular Cell Biology held at Bon Secours College for Women, Thanjavur (3^{rd} & 4^{th} March, 2014)

7. Dr. T. Sridhar, Associate Professor, Department of Economics was presented the best paper award in the International Conference on "**Advance Management Challenges in Knowledge Era"** held in Jamal Institute of Management (ICAM) 2016) in 8th & 9th January, 2015.
8. Dr. S.P. Anand, Dept. of Botany received **Young Scientist Award from DST-SERB** for the Research project on "Characterization of Bioactive and biochemical constituents in some wild edible fruits of Eastern Ghats, Tamil Nadu".
9. Dr. S. Shankaramanivel, Dept. of Biotechnology received Young **Scientist project from DST** for his project on "Improving hepatic differentiation of Mesenchymal stem cells by co-culture with endothelial cells".

The following staff have received awards from reputed professional bodies and agencies for their contribution to the society.

1. The prestigious **Best Teacher Award** – 2011 instituted by Chemical Research Society of India (CRSI) was conferred on Dr. M. Murali, Associate Professor, Department of Chemistry during the Annual Conference of CSIR- held in National Institute for Interdisciplinary Science and Technology, Trivandrum, India on February 5, 2012.
2. Youth Red Cross society of our College has been adjudged as **the best performing unit** among the colleges affiliated to Bharathidasan University. The Award for the same was presented to Dr. S. Senthil Kumar, Co-ordinator, YRC by Dr. V.M. Muthukumar, Vice-Chancellor, Bharathidasan University, Tiruchirapalli in a function held on 16.02.2016.
3. Dr. N. Renganayaki, Assistant Professor, Department of Economics received the **Best Teacher Award** from Chennai Grabs Educational Trust in November, 2015.
4. Dr. D. Saravanan, Assistant Professor, Department of Chemistry was presented – **Best Citizen of India Gold Medal Award of Excellence** by Global Economic Progress & Research Association (GEPRA), New Delhi on the occasion of 32nd National Unity Conference on Individual achievements and National Development held on 26th January, 2016 at Bengaluru.
5. Dr. A.T. Ravichandran, Associate Professor, Department of Physics received **Best Organizer Award** from Department of Atomic Energy Diamond Jubilee for organizing the State level Quiz competition during 14th & 15th July, 2015
6. முனைவர். ஆ. மாணிக்கம், தமிழ்த்துறை பேராசிரியர், **நற்றமிழ் நாயகன் விருது** திருமுறை மன்றம் (திருமுறை வைப்பு) - 12 ஆகஸ்ட், 2014

7. Dr. R. Elavarasu, Head and Associate Professor, Department of English received **பேரறிஞர் அண்ணா விருது** செம்மொழி தமிழாய்வு பன்னாட்டு மன்றம், காரைக்கால் special lecture on பேரறிஞர் அண்ணா சிறுகதைகளில் சமுதாய விழிப்புணர்வு held on 14 December, 2014
8. Dr. R. Elavarasu, Head and Associate Professor, Department of English received **செந்தமிழ் கோ விருது** அந்தமான் தமிழர் சங்கம், special lecture on கம்பன் கண்ட தம்பிமார்கள் 29 April, 2012
9. Dr. R. Elavarasu, Head and Associate Professor, Department of English received **தமிழ் மாமணி விருது** தமிழய்யா கல்வி கழகம், கோவா special lecture on Translation of Tirukkural 29 December, 2013.

Sports

Our College Cricket team has won Championship in the **Inter-Collegiate Cricket Tournament** among Colleges affiliated to Bharathidasan University consecutively for four years. It is worth mentioning that seven players representing Bharathidasan University team are our students. The following are the other land mark achievements of our students in National/International competitions.

1. Mr. B. Mugesh, B.Sc. Physical Education represented India in Cycling in Asian Cycling Competition held in Delhi In 2013.
2. Mr. K. Vishnu Narayanan, II B.Sc. Physical Education, participated as Indian representative in Yoga at BRICS 2015 held in Moscow from 26th Aug to 6th Sep 2015. He also demonstrated Yoga in the presence of the Prime Minister of India, Mr. Narendra Modi and President of Russia Mr. Vladimir Putin
3. Mr. R. Mothi Arun, I B.A English, won National Junior Championship in Dec 2015.
4. Ms. A. Chandralekha, I B.A English secured Gold Medal in 100 and 200 metres in the National Athletic Championship held in Patiala, Punjab during Dec 2015.
5. Ms. M. Iswarya, M.Sc., Mathematics participated in the 5th National level tournament held at Mumbai and won Gold medal in Kung Fu Competition. Altogether, she competed in 23 tournaments and bagged 21 Gold medals.

Co-curricular activities

All the students of Under Graduate programme are involved in one or other co-curricular activity. The College has the unique status of the only College having **5 units of NCC** in Tamil Nadu. NCC cadets and NSS volunteers attend various National/State/Regional level camps which

bestow on them leadership and team work skills. 5 cadets have attended Republic day parade after the II-cycle of Accreditation. 04 villages have been adopted by the 4 units of NSS.

To promote diverse talents among students, a grand Inter-Collegiate two day cultural festival '**NACOFEST'** is organized every year. The mega event has earned a good reputation as a forum for the blossoming and display of an array of talents ranging from music and dance to extempore debate and quiz.The Department of Computer Science conducts an Inter-Collegiate Competition programme entitled **NACOTECH** for the students of Computer Science to bring out their latent talents in the ICT. Similarly, the Department of Mathematics organizes an Inter-Collegiate Mathematical Competition in the name of **NACOMAT** for the students of Mathematics.

As a part of popularization of Science, the Department of Geology conducts a one week lecture programme every year jointly with **Tamil Sangam** for the benefit of students and general public.

IV - Infrastructure and Learning Resources

Infrastructure

Continuous infrastructure development is another focus area of National College. An indoor stadium, an outdoor stadium, a Girls hostel to accommodate 360 students, a new class room block with 80 class rooms and an extension block for librarywith state of the art facilities have been constructed. UG and PG Chemistry laboratories have been fully renovated and refurbished. New Research laboratories for Crystal Growth, Physical Chemistry, Animal and Tissue Culture have been established.

V - Student Support and Progression

Science Exhibition

A massive **Science Exhibition** held at the College on 7th, 8th and 9th October 2013 was a grand success. Hundreds of displays and demonstrations were presented by our enthusiastic and energetic student to explain various scientific concepts and principles. The grand carnival provided an enthralling experience of education and entertainment to nearly 10,000 school students in the region.

Visit of Dignitaries

National College always strives to provide to its students the best in every sphere of academic activity.Great personalites and leaders across a wide spectrum of the society are invited to interact with our students and provide impetus to the pursuit of lofty ideals.

The list of eminent Scientists/scholars who participated in the Seminars / workshop / conference / Endowment lecture is given below.

- Dr. C. Rengarajan, Chairman, Economic Advisory Council to the Prime Minister of India delivered a lecture on **Challenges before Indian Economy** on 22.01.2011.
- Padmashri Dr. S. Krishnasamy, delivered a lecture on **Culture and Politics** on 10.12.2011.
- Mr. K. Srikanth, Chairman, BCCI, Selection Committee inaugurated a National Conference on 28.07.2012.
- Dr. D.P. Bhatt, Head, IPRM, National Physical Laboratory inaugurated NCIF on 18.02.2013.
- Dr. Dinesh Kumar Bharadwaj, Deputy Director, Food and Drug Toxicology Research Centre (FDTRC), National Institute of Nutrition (NIN), Hyderabad delivered a lecture Toxicology on 14.03.2013.
- Mr. T.S.R. Subramaniam, Former Cabinet Secretary delivered the Rajaji Memorial Endowment lecture on Current Issues in Governance on 10.12.2012.
- Dr. K. Kasthurirangan, Former Chairman ISRO, spoke on remote sensing from Space-A New dimension to Light and Radiation on 01.03.2013.
- Mrs. Sasikumar, Chairman, Asian College of Journalism spoke on Reality and Representation in a Mediatised World on 13.03.2013.
- Mr. Swaminathan S. Aiyer, the Consulting Editor, and The Economic Times delivered a lecture on Political Economy-Its Challenges facing India on 12.08.2013.
- Dr. S.V. Raghavan, Scientific Secretary, Office of Principal Scientific Advisor to the Government of India, New Delhi delivered a speech on Connected India on 20.09.2013.
- Mr. N. Ram, Chairman, The Hindu delivered a lecture on Relevance of Rajaji's thought in the Present day Politics on 10.12.2013.
- Dr. Y.S. Rajan, Professor, Indian Institute of Science, Bangalore spoke on Science, Engineering, Industry and Markets on 28.02.2014.
- Governor of Tamil Nadu Mr. K. Rosaiah was the Chief Guest for a Conference on 30.08.2014.
- Arjuna Awardee and Former Captain of Indian Cricket Mr. Bishan Singh Bedi inaugurated a Conference on 29.08.2014.

- Dr. M.S. Ananth, Director, Indian Institute of Technology Chennai delivered a lecture on the Changing Paradigms of Education on 28.02.2015.
- Dr. R. Chidambaram, Chairman Department of Atomic Energy/Principal Scientific Advisor to the Govt. of India delivered a lecture on "To Become a Knowledge Economy" on 12.11.2015.

Outreach programme – Ramanujan Mathematical Society

- The Registered Office of the prestigious Ramanujan Mathematical Society was shifted to our College Campus and was formally inaguarated on 19.01.2015. The society has a membership of 1500 renowned mathematicians from all over the World. The society organizes Outreach programme for PG and Research scholars on Advanced Mathematics.

Tutor Ward System

- The **Tutor Ward System** is another colourful feather in the cap of National College. Under the system, a batch of about 15-20 students of I U.G/P.G is assigned to a professor, designated as tutor. The tutor takes the wards under his wings and mentors them throughout the duration of the course. The tutor also maintains a record of the performance and progress of each student in the form of a counseling record. The continuous personal interest and interaction are of immense help to the rural students to overcome their fear, inhibitions etc and enhance their personality.

Scholarship

- 80% of the students are receiving scholarship from state government under the Post Matric Scholarship scheme. The College provides Financial Assistance to all the SC, ST and OBC students through this scheme. A sum of Rs. 72,78,670/- was distributed to the students by way of Government Scholarships during the last academic year.
- Among the Colleges of Tiruchirapalli District, our College has the distinction of distributing the highest amount of Government Scholarships to the students of OBC/SC/ST
- The Hostel Students of SC/ST Community are provided with loan scholarships sanctioned by Government of Tamil Nadu. A Sum of Rs.15,59,000/- was distributed to the students as loan scholarships during the last year.
- Every year 20 students are given a scholarship of Rs.2000/- each by Andalammal Educational Trust.
- 03 scholars receive Rajiv Gandhi Fellowship, 05 scholars receive JRF and one scholar receives Moulana Azad Fellowship for doing Ph.D.

* 12 scholars have received Tamil Nadu Government scholarship of Rs. 3,000/- per month for 3 years for their Ph.D. programme.

Endowment Prize

86 endowments have been created in the college for giving awards to meritorious students.

VI - Governance, Leadership and Management

The College conducts **Academic Audit** of all Departments every year which serves as a SWOT analysis as well. Subject experts with rich experience from other Colleges and universities review the programmes, performance and process of each department and make suggestions. The suggestions are faithfully implemented.

The College publishes an esthetically designed Newsletter each semester and a Magazine every year. The news letter presents all the important events of the college with attractive photographs and lucid description. The magazine of excellent substance is brought out in an elegant style. As records of events and achievements, these two publications stand out as shining examples of our quest for excellence in everything we do. It is a public relation exercise also.

VII - Innovation and Best Practices

With a view to tap alumini as a resource for the growth of the college, Alumni Association of the College has been strengthened in the recent years. It helps in extending financial support by various scholarships, awarding prizes and giving feedback on the functioning of the College. The **Annual Alumni meeting** is held on the 1st Sunday of February every year. **Mr. S. Natarajan, Director, Shriram Group**- an illustrious alumnus of the College donated a bus to the College.

A **common address system** connecting all the classrooms and laboratories with the Principal's room has been established. It provides a quick and easy means of communication. Principal addresses the students and announces important messages and events through the system.

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the Institution
(Dr. K. Anbarasu)

PRINCIPAL
National College (Autonomous)
Trichirappalli-620 001.

Place : Tiruchirapalli

Date : 28.05.2016

NATIONAL COLLEGE
(Autonomous)
Nationally Re-accredited with 'A' Grade by NAAC
College with Potential for Excellence
TIRUCHIRAPALLI - 620 001
TAMILNADU
Email: principal@nct.ac.in

Dr. K. Anbarasu, *M. Sc., M. Phil., Ph.D.,*
PRINCIPAL

Phone No : 0431 - 2482995
FAX : 0431 - 2481997

30.06.2016

Certificate of Compliance

This is to certify that **National College, Tiruchirapalli, Tamil Nadu** fulfils all norms

1. Stipulated by the affiliating University and
2. Regulatory Council/Body [such as the UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date : 30.06.2016
Place : Tiruchirapalli

NATIONAL COLLEGE Autonomous Trichirappalli-1

Principal/Head of the Institution
(Dr. K. Anbarasu)

PRINCIPAL
National College (Autonomous)
Trichirappalli-620 001.